

# Manufacturers Record

## Exponent of America



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JANUARY 22, 1925

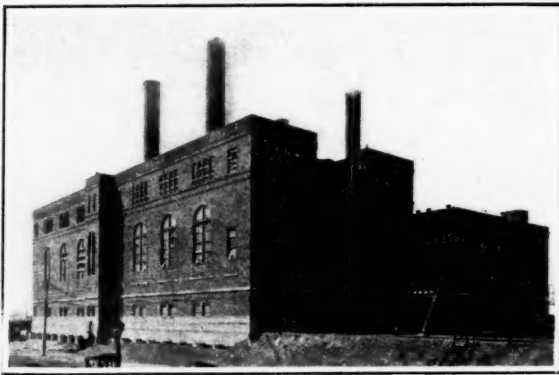
### A Symposium on the Child Labor Amendment.

In our issue of January 8, in a footnote under the symposium on the Child Labor Amendment, prices for reprints were given on the supposition that probably few copies would be ordered and the price would be accordingly high. Since then a sufficient number of orders have come in to enable us to make a great reduction in the price. The symposium, instead of being 14 pages, will be 20 pages, and will be furnished at the following prices: 100 copies or less, 20c per copy; 500 copies, 10c per copy; 1000 copies or more, 8c per copy.

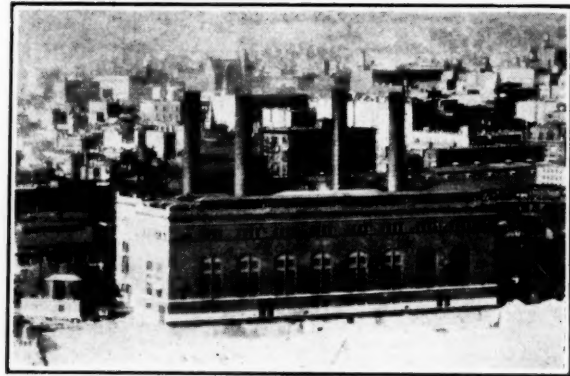
The orders we have received indicate a widespread interest in the distribution of this reprint. It is our aim not to make any profit out of it, but to sell it at the lowest price covering the actual cost to us. In this reprint there will be found the views of men and women and of newspapers in nearly all parts of the land. Their statements answer every question that can be raised in regard to the Child Labor Amendment. If these facts can be widely circulated throughout the country there will be but little danger of the adoption of the Amendment, and it is incumbent, we feel, upon every man and woman in the country interested in defeating this extremely dangerous, indeed this vicious, proposed legislation to make these facts known as widely as possible.

If business men throughout the land would see that every member of every legislature in the country received a copy, and if they could be widely distributed to members of women's clubs and other kindred organizations, there is no doubt in our mind that the Amendment would be defeated. Wherever the truth can be made known on this subject, as it was made known in the Massachusetts campaign, the people will quickly awaken to this dangerous proposition and bring about its defeat. But if the people are left in ignorance, and hear only the cry of the supposed humanitarian posing as a defender of childhood, no one can tell how disastrous the result may be.

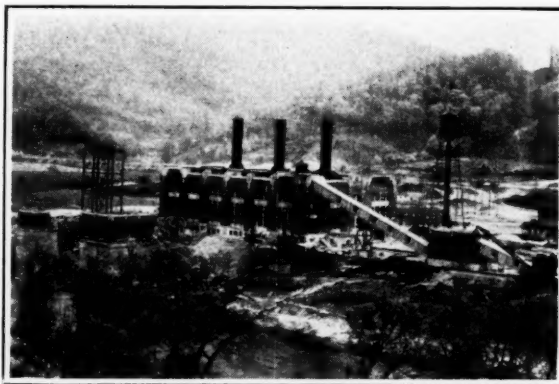
Let it be understood that we freely give permission to anybody and everybody to reprint this symposium, simply with the usual credit to the Manufacturers Record, if they can do it more cheaply than we can; but we would regret to see anyone reprint this in cheaper form or on cheaper paper. Unless it is made readable and attractive the people will not pay attention to it. Our aim is simply to carry forward this work in the interest of the children of the land, and of the country itself, for if ever an amendment should be passed giving to a commission in Washington the power to "prohibit" the labor of any child or youth under 18 years of age, the future of this country would be doomed.



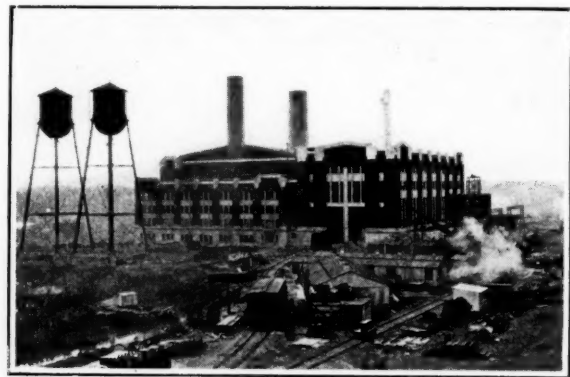
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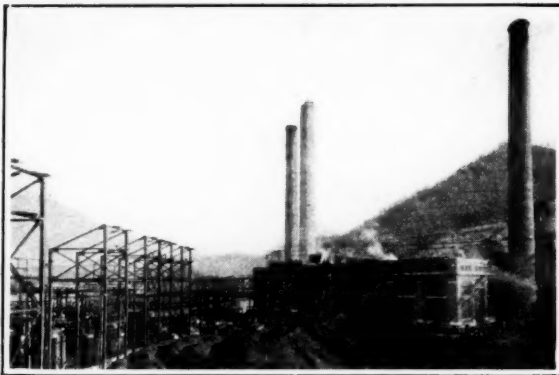
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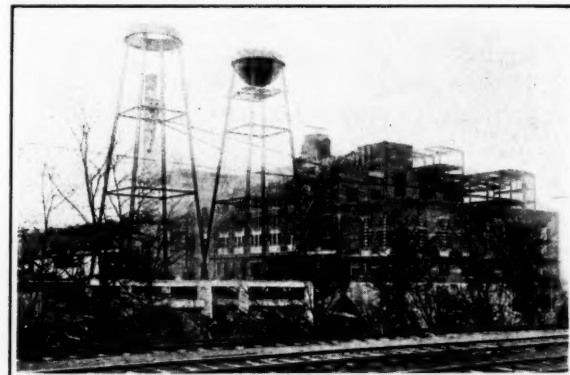
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JANUARY 22, 1925

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Exponent of America



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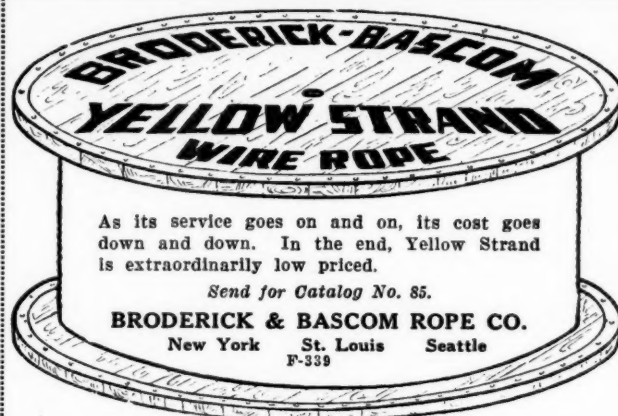
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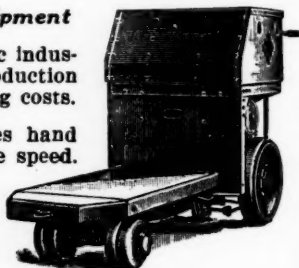
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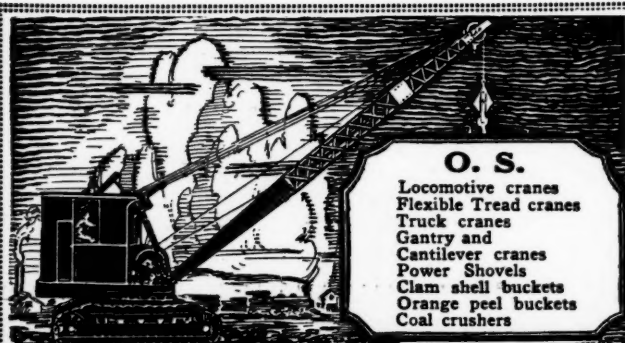
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# Manufacturers Record

EXPONENT OF AMERICA

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of the South and Southwest as the Nation's Greatest Material Asset

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## The Most Remarkable Material Development in Human History.

**I**N all the records of human history there is nothing with which to compare the stupendous development of the automobile industry. At its inception the MANUFACTURERS RECORD took the ground that the invention of the internal combustion engine, which drives the automobile and the aeroplane, marked the greatest event in the material advancement of the world, surpassing in some respects the introduction of the railroad and its influence on human affairs. No man can possibly study the rapidity with which the automobile has been introduced into this country without being dumbfounded at its progress and the enormous amount of money that is annually being expended upon the purchase and maintenance of cars.

We have been building railroads for over 100 years and at present the total investment in all the railroads of the United States is in round figures about \$20,000,000,000, but in 1924 this country expended upon the purchase and maintenance of automobiles and motortrucks more than one-half the total amount invested in railroads.

During 1924 the total amount spent for the purchase and maintenance of motor vehicles was \$10,570,000,000. This, of course, includes purchase of new cars, not taking into account any resale of old cars, and the purchase of tires and accessories, gasoline, oil, Federal taxes, state license taxes and repairs. At that time there were 3,105,000 employees engaged in the various branches of the industry. We exported about a quarter of a billion dollars' worth of automobiles and trucks, but this sum was probably offset by the amount expended for second-hand cars. During the year we consumed over 6,000,000,000 gallons of gasoline and at the present time the consumption of gasoline is running on the basis of about 3,000,000,000 gallons a year.

Apparently we have not yet reached the saturation point of automobiles, for many men who a few years ago thought it extravagant to own one car, now feel it a necessity to own two. What, therefore, is the limit in the production and purchase of cars no man can predict, but a study of the amount that is now being expended is staggering and it is well-nigh impossible to comprehend how so vast a sum can be provided annually.

Compare the total of \$10,570,000,000 spent last year for the maintenance of the motor vehicle industry with some other things and we get a better idea of its magnitude.

For instance, the total value of the farm crops produced in

the United States last year was \$10,326,000,000, or \$243,000,000 less than the amount spent on the automobile industry.

It would have taken more than six cotton crops, including seed, of the value of last year, to have paid for the automobile maintenance of the year. It would have taken over four corn crops of last year's value.

The capital of all the national banks of the United States was in 1923, \$1,325,000,000, or less than one-seventh of what we paid out for the maintenance of the automobile industry.

The cost of automobile purchase and maintenance last year exceeded by \$2,000,000,000 the total value of our foreign exports and imports combined.

We spent on automobiles more than six times as much as we spent upon public school expenditures in 1922, later figures on school expenditures not being yet available. The amount spent on automobiles and maintenance last year was about one-seventh of the total wealth reported for the South in 1922.

The insurance business has for years been accounted one of the great financial forces of the nation. Its influence is beyond calculation, but the total assets of all the legal reserve life insurance companies in the United States last year was \$9,400,000,000, or more than \$1,000,000,000 less than we spent in one year on the motor vehicle industry.

Are we going too fast in this enormous expenditure upon automobiles? Are too many automobiles being bought on credit? These are questions which every thoughtful student of economic affairs has been asking over and over again for the last ten years. Predictions without end were made eight or ten years ago that the industry had reached its limit, that the country could not stand the enormous drain of the money put into automobiles. Many bankers in all parts of the country predicted over and over again that there would be a collapse of the industry and a collapse of the buying power of the country and great financial disaster therefrom, but all of their predictions have proved false up to the present time. We have kept on turning out cars by the millions, the country has kept on absorbing them and there is really no more evidence today of danger of a collapse in the industry and in finance than there was eight or ten years ago, but surely we must some day reach for a while the end of our ability to keep on buying cars at an accelerating rate. That time, however, is not yet in sight. No man can say when it will be, for the automobile and the motortruck are creators of wealth to an extent greater probably than the amount we



are spending on them. They have come as an absolute necessity for the enlargement of business of nearly every kind, for the betterment of transportation facilities for passengers and for freight.

No one can vision the disaster that would have come upon the country if the automobile had not come into existence to relieve the pressure upon the railroads. They would have broken down, hopelessly swamped by the volume of business, far in excess of their physical ability to handle it.

The automobile has doubled and trebled and in many places quadrupled the power of men to do business. Who could possibly measure the difference in the volume of business that a man can do today as compared with 15 or 20 years ago? The real-estate dealer, for instance, in the city and in the country alike can easily quadruple the work that he could have done under old conditions. Suburban development was once made possible by the building of street railways, which were then regarded as the greatest wealth creators of the day, through the turning of farms into homes for millions of people who could get away from the congestion of city life into a larger life in suburban sections, but the street railway proved wholly inadequate to the needs of the hour. The street railway is confined to tracks over certain given sections. The automobile can go wherever a road exists.

The creation of wealth by the enhancement of real estate which has thus come about is beyond estimate, but greater by far than the actual wealth thus made is the betterment of living conditions for millions of families. The congestion in cities was endangering the very existence of life, as is still true in some sections, such, for instance, as the overcrowded East Side of New York. The automobile has changed this to a large extent all over the land and the change is going on with as great rapidity as is the expansion of the automobile industry.

The automobile is a time saver. It enables men of all professions and of all lines of work to get to and from their places of business with much less time than by the street railway. It is a life saver to millions of people by permitting them to get out in the open air as they could not formerly do. It lessens the loneliness of country life, it makes possible better school attendance. It will help to change the trend from the country into the cities and, on the other hand, develop a trend from crowded cities into the open country. It will necessitate spending not merely \$1,000,000,000 a year as we are now doing for good roads, but the expenditure of several times that amount for highways and their maintenance, because the building of highways opens up the country, increases its trade and travel, and lessens the wear and tear on cars and tires and in one sense really costs nothing, because the tax on gasoline more than pays for road building and the user of the gasoline saves money by lessening the wear on his car.

Viewed from whatever standpoint, studied from any angle, we can but marvel at the mystery, the miracle it might be said, of the whole automobile industry and the wideness of its ramifications in every walk of life and in every business pursuit of mankind. We have about 88 per cent of all the automobiles in the world and to that extent our progress as compared with the progress of the world during the last 10 years may be measured. The South alone has 1,200,000 more automobiles than all the rest of the world outside of the United States; indeed, it has 1,200,000 more automobiles than the United States had as late as 1915.

The automobile is a great factor in the betterment of life,

of education, of health, of pleasure. And there is another viewpoint from which it may be studied. It is a great builder of a broad spirit of nationalism as against sectionalism. Millions of people are annually travelling from one part of the country to the other. They are becoming better acquainted. The North is understanding the South better than it ever did and the South is understanding the North, and the same is true of the West as to both sections.

Long before the Civil War, when South Carolina projected a railroad from Charleston to Cincinnati, one of the arguments in its favor was that by bringing the two sections together business would be developed and friendships created which would probably prevent the possibility of war between the sections, then feared by many of the foremost thinkers of the day. They felt that friendship of this kind would be invaluable to the South and the West alike. What they anticipated by closer friendship in railroad building is now being brought about by the automobile.

Literally hundreds of thousands of cars from the North and West visit the South during the winter season and from the South a steady stream of cars goes to other sections at other times in the year. This motoring of the people is a tremendous factor not only for business and for friendship, not only for a broader spirit of Americanism, but for the building up of the business life of the country and the vast enlargement of our prosperity and progress.

### THIS IS INSIDIOUS PROPAGANDA.

**P**ROPAGANDA in favor of the Child Labor Amendment by a news distributing association is indicated in a dispatch published by several of that association's clients, opening as follows:

"Washington, January 8—[By Universal Service.]—Revealing that a well-organized and liberally financed movement has been launched to defeat ratification of the Child Labor Amendment, Senator Walsh of Montana, in a speech today, exploded the stock argument of the opposition, that 'the whole movement is a Communist plot.'"

In regard to the Universal Service, individually, the MANUFACTURERS RECORD has no comment to make. It does, however, feel that all news-distributing organizations should confine their activities, or be compelled so to do, to unbiased and non-propagandist reports of the news, and not be permitted, under the guise of "news" articles, to endeavor to exert editorial influence on the readers of their client newspapers. There can be no doubt in the mind of any intelligent man or woman that the dispatch here quoted is designed to awaken sympathy and support for the Child Labor Amendment. The verbiage proves it—"revealing," in an unbiased news dispatch, would not be used, but "alleging." "Exploded the stock argument of the opposition" is another editorial and propaganda phrase.

Such "news" items are a fraud upon readers. Senator Walsh does not seem to have "revealed" any such "movement," but merely to have "charged" it. An uninformed reader, perusing such a dispatch, probably would be sympathetically enlisted in support of the Amendment, offhand, without even knowing the arguments for or against it.

Mayhap it is not out of order to suggest that Senator Walsh investigate, or "reveal" without investigation, whether there may not be a "well-organized and liberally-financed movement" in behalf of the Amendment, and the extent to which it may run into news-distributing circles. We are quite sure Senator Walsh made a statement which is without any foundation in fact. Certainly, this paper has never heard of any such scheme. The opposition to the Amendment is nation-wide, and includes every class of people—preachers, teachers, farmers, lawyers and all others.

## A Remarkable Trip of Five Hundred Leading Business and Newspaper Men of the Country to Florida.

A FEW weeks ago Darwin Kingsley, president of the New York Life Insurance Company, in a speech at Daytona at what was regarded as the most important banquet ever held in Florida, turned from a discussion of many interesting things and of the great future of Florida to say a few words of enthusiastic praise of S. Davies Warfield, president of the Seaboard Air Line Railway, taking the ground that Mr. Warfield should rank with Flagler and Plant in the upbuilding of the state.

Mr. Kingsley used the occasion of the building of the Florida Western & Northern Railroad by the Seaboard under Warfield's initiative and constructive power to give unstinted praise to what Warfield had accomplished. In the first place, against tremendous disadvantages, financial and otherwise, Warfield succeeded in financing the 200-mile extension of his line through the very heart of Florida. In addition to that he built this road through the co-operation of Vice-President Bonsal in a shorter time than any other road of equal length had ever been constructed in the world's history—a 200-mile line ready for operation within 10 months from the time the first pick was struck into the ground.

But this week Mr. Warfield will cap the climax of his achievements up to the present time in carrying over his line and into Florida about 500 guests, including many of the foremost financiers and business men and great newspaper leaders of the entire East. There will be four special trains, two of them running straight from New York. This will be the most remarkable gathering ever gotten together in the South and perhaps, viewed from many standpoints, in this country's history. The men on that trip will include Clarence W. Barron, owner of the Wall Street Journal; Arthur Brisbane of international newspaper fame; the president of the United Press, the editors of many of the leading papers, and many of the foremost hotel men of the country. It is impossible to estimate the value to the South and to Florida of such a gathering. The reports that will go back from these editors to the newspapers of the land will be read by a very large proportion of the entire population of the country. The very magnitude of the excursion, the vast wealth represented by the financiers who will be on hand, the boundless influence of the newspapers which will be represented will give to Florida a degree of favorable publicity never before received by any state in the Union at one time. Not only Florida but the entire South will be benefited. Men will go back to their homes saying that the half had not been told them of the South's resources and opportunities. Mr. Warfield will have thus achieved a work of such national importance that he will deserve and win that enthusiastic commendation given to him by Mr. Kingsley.

While the strategic situation in connection with the building of this new road offered to Mr. Warfield this great opportunity, it should be borne in mind that he created the opportunity. If the other railroad people of the South would utilize opportunities which are available or can be made avail-

able by initiative and energy, they, too, could carry into the Southern states great excursions of the leading men of the North and West that they might learn by ocular demonstration what the South is, what it has and what its future will be. Will the officials of other great systems in the South seize the occasion to create the opportunity of similar excursions into this section?

Thirty years ago the Seaboard Air Line, through the MANUFACTURERS RECORD, invited a committee of five New England cotton manufacturers to go through the central South as its guests.

Out of that trip came the building of five mills, each of which cost over \$1,000,000 and which today represent in each case an investment of \$2,000,000 or more.

Other roads in times past carried on somewhat similar work, but very few of them have been doing work of just this kind during the last few years. The example set by Mr. Warfield might well be imitated by other railroads in other states of the South, for if properly arranged and properly handled limitless good would be brought about for the South and for the railroads which undertake such work.

The MANUFACTURERS RECORD extends its heartiest greetings and its warmest congratulations to President Warfield for that initiative and tireless energy which will bring forth an abundant harvest to his own road, to the state of Florida, and indirectly to the South as a whole.

May his tribe increase!

### A SURE WAY TO BREAK UP BOOTLEGGING.

IN a report on "the illicit sale and use of intoxicants in the District of Columbia," a sub-committee of the House Committee on the District of Columbia recommends, among other things:

"That the provisions in the National Prohibition Act for first offenses in cases involving commercial transactions in liquor be amended to provide both a mandatory jail sentence and a minimum fine.

"That the Department of Justice call the attention of the United States District Attorney and the judges of the District of Columbia to the need of more severe penalties; to the effective means provided in the law for the abatement of liquor nuisances by injunction; to section 37 of the Penal Code, making applicable the penalties of the law against conspiracy to violations of the prohibition statute; that the acceptance of small bonds and the forfeiture of collateral should be discontinued; that bonds be allowed only for the appearance of a defendant in court, and not as a substitute for penalties; that a bench warrant or capias be issued in all cases in which the bond or collateral is forfeited; and that in all cases where practicable the purchaser of illicit liquor be prosecuted as well as the seller."

Such recommendations should be made to cover the entire country, and not be restricted to the District of Columbia.

To say that the police and the prohibition authorities and, to large degree, the courts are responsible for present open defiance of the prohibition law might seem a little too sweeping, and yet it is unquestionably true that lack of interest and display of almost sympathetic leniency by the authorities give aid and comfort and encouragement to prohibition law violators.

The responsibility rests largely in the Treasury Department and the Department of Justice; it is shared by United States Senators who recommend as prohibition enforcement officers



men whom they know to be unfitted for the posts, or even averse to enforcing the law; it percolates into the lower police authorities, and it comes out openly in Federal courts in which some judges make mockery of the law by imposing sentences at which the offenders smile.

The following excerpt from the report on the District of Columbia may well be cited as applicable to the entire country:

"Certain defects in the administration of the law were also disclosed. All of the provisions of the existing law are not being invoked to their full extent. The fines which are being imposed upon violators of the prohibition law by the courts are wholly inadequate. In 1922, the average fine for violation of the National Prohibition Act in the District was \$43.67. In 1923 it was \$79.43. It is apparent that fines of such small proportions constitute no deterrent to bootleggers. It is much less than a license. The average fine in the District is much less than for the United States, which was \$170 in 1923.

"It is not possible to obtain exact statistics showing the average prison sentences imposed in the District. The evidence fully established is that jail sentences are very few. The average in the District is much lower than the average for the entire United States, which is 29½ days. Jail sentences, in cases in which they may be imposed, constitute the only deterrent to violators of the liquor laws."

The average fine imposed throughout the United States is \$170; the average period of imprisonment, in cases where imprisonment actually is imposed is 29½ days. Who shall say it is contempt of court to assert that the courts are responsible, in their full share for defiance of the prohibition law? Until respect for the law is shown by the authorities and the courts, one hardly can expect it from bootleggers or other prohibition act violators, professional or amateur.

Obedience to the prohibition law is spreading throughout the land through voluntary acceptance and endorsement by the people. This obedience could be enforced among deliberate violators by the imposition of merely proper punishment.

In a letter to the Attorney General of the United States, last February, the editor of the MANUFACTURERS RECORD said:

"The bootlegger cares very little for a jail or penitentiary sentence, even if it be for a year or so, provided he can pile up a lot of money to be available when he comes out of jail. To these people a jail sentence carries no especial degradation, and when they return from the jail they are as warmly welcomed back by their old associates as if they had received some national endorsement, rather than condemnation. This was strikingly seen in Baltimore in a recent case where a bootlegger, sent to jail for nearly a year, when released was uproariously welcomed back into his old haunts by the crowd with whom he had associated in the past.

"You cannot, therefore, break up the bootlegging industry by jail or penitentiary sentences alone, unless they are made for a very long period, say, five or ten years as a minimum, in order to give these criminals an opportunity to reflect on their criminality. These men are out for the money to be made and they care nothing for anything else. The penitentiary sentence has no disgrace in it for them nor to their associates. But if you could devise a way by which bootlegging will be made unprofitable, you would very soon see it largely broken up.

"Is it not possible to have a law enacted which will require a fine, on any conviction, of the entire amount that the bootlegger has made out of the industry? Take from him every dollar of profit that has accrued through his criminality and there will be no temptation to him to continue bootlegging. Much of the money earned would probably have been spent or hidden away. Nevertheless, by a thorough investigation the courts might be able to trace the profit that he has made and see what has become of the money, and then fine him the entire amount and make his jail sentence permanent until he pays to the Government the whole amount of money made out of bootlegging. If this could be put into effect, it would probably be more powerful in destroying the whole bootlegging industry than even a penitentiary sentence."

With penury, instead of luxury, facing him throughout his jail sentence, a bootlegger will be very likely to decide that the game isn't worth the candle. "Make the punishment fit the crime," sang the Mikado. The only punishment which in his own eyes will fit the bootlegger's crime is to despoil him

of his ill-gotten gains, and to that add a long penitentiary sentence or send him to the chain gang to work on public highways. If individual states would establish a rule to send to the road chain gang for not less than 3 to 6 months every man found violating the prohibition law in addition to a fine of the full amount of the money the bootlegger had made, violation of this law would soon cease. The thief is not allowed to retain the stolen goods, then why should the bootlegger be allowed to retain the money made, for he is a greater criminal than the thief.

The subcommittee of the District Committee appears to have done its work conscientiously and well, but until the authorities and the courts work with equal conscientiousness and effect, such efforts as that of the sub-committee will be without immediate concrete results.

### HOW THE SOUTH IMPRESSED THEM.

THE visit of a number of Governors of Northern and Western states to Florida and other parts of the South recently has resulted in bringing to the MANUFACTURERS RECORD two interesting letters from those who were in the party. Hon. J. A. O. Preus, Governor of Minnesota, in reply to an inquiry as to how the South and Florida—especially as his main visit was to Florida—impressed him during his visit to this section, writes as follows:

"I was greatly impressed with Florida. I believe the governors who attended the governors' conference were all impressed with that state. The hospitality of the people, the development of foreign trade, the citrus groves, their lettuce and celery fields, their phosphate mines, but, above all, the salubrious climate and beautiful home-building developments, impressed me tremendously. The throng of people coming to Tampa and St. Petersburg, crossing the state through the beautiful lake area covered with orange groves and Southern pine as far east as Sebring; the beautiful winter residences at Cocoa, Palm Beach and Miami are bound to continue to attract people from the North by thousands, just as the wonderful 10,000-lake area of Minnesota will in due course of time attract people from all over the nation to Minnesota during the summer and autumn months.

"You state that any criticisms will be equally well received. I have but this one to make: There is a boom on in Florida, and Florida has more climate and more area than the Northern people probably can consume as a winter playground, and, therefore, prices now received are, in all likelihood, in many instances not permanent."

Hon. Ralph O. Brewster of Portland, Maine, writing on the same subject, says:

"I was tremendously impressed with the Renaissance of the South. I recently spent some time in North Carolina, as well as in Florida, and everywhere saw evidences of a tremendous expansion. The schools and roads are the monuments to this progress and the factories and farms are the evidences of the firm foundation on which their economic prosperity is built. In Florida, the agricultural development guaranteed their prosperous growth.

"This is a development to make every citizen of our Union rejoice, as each part is intimately dependent upon the prosperity of every other. We shall soon be a great nation of 150,000,000 to 200,000,000 people, and we shall then require that every talent and every resource of every section is put to the highest use. In this friendly rivalry of service to our common land we may all rejoice and progress.

"During the course of our conferences, voices on every hand seemed to be singing, 'Sectionalism is dead.' We are all citizens of every state and justly proud of their achievements and their heritage."

The point made by Mr. Brewster, that sectionalism is dead, is a fact which should be emphasized and re-emphasized whenever possible. Here and there may be found some man or some woman who still has a sectional spirit; but the people of the North and the South and the East and the West are more and more becoming broad Americans, who, while devoted to their individual states and individual sections, are first and foremost Americans.



## Value of All Crops Last Year \$10,326,769,000—\$4,212,870,000, or 40 Per Cent, in the South.

ACCORDING to estimates of the Agricultural Department, the total value of all farm crops in the United States in 1924 was \$10,326,769,000. If to this total the value of animal products be added, the aggregate value of all farm products last year was in the neighborhood of \$16,000,000,000. Not all of this enormous sum was received directly by the farmers of the country, for, of course, some farm products were consumed on the farms and many farmers had sold at least a portion of their crops by December 1, the date on which values were based on the average prices then prevailing for various commodities.

The country's agricultural situation is in better shape than it has been for some years. Costs are on a more stable basis, the ratio of farm prices slightly increased over other commodities which the farmer purchases and, therefore, the increased buying power of the farmer is reflective in general business activity.

Compared with the revised estimate of \$9,468,128,000 received for all crops in 1923, last year's crops show an increase in value of \$858,641,000, or about 9 per cent. The value of all crops in 1924 was \$707,139,000 less than the aggregate crop value of \$11,033,908,000 for the five-year average (1918-1922) immediately following the World War. However, the 1924 crop values were \$170,343,000 more than the total crop value of \$10,156,426,000 for the average of the five war years, 1914-1918, and \$4,099,750,000, or about 66 per cent, greater than the total crop value of \$6,227,019,000 estimated for the pre-war five-year average of 1910-1914.

The aggregate value of all crops in the South in 1924 amounted to \$4,212,870,000, or, in other words, 40 per cent of the country's total crop values was produced in the South, and this in spite of the fact that the South's principal crop, cotton, did not benefit from the rise in prices experienced in the grain market, which resulted in large gains in crop value for some of the grain-growing states. Then, too, another important Southern crop, tobacco, which was valued at \$256,346,000 in 1924, brought \$44,750,000 less than in 1923.

In 1923 the South's crops were valued at \$4,208,056,000; for the five-year average 1918-1922 they amounted to 4,509,000,000 and for the five-year average 1914-1918 the South's crops had a value of \$4,130,104,000.

Texas, with crops valued at \$920,081,000, far outranked all states in crop values last year, though it did not reach the \$1,607,530,000 received in 1923. Another Southwestern state, Oklahoma, however, had an increase in crop value from \$275,044,000 in 1923 to \$427,934,000 in 1924. In fact, the grain-growing states made substantial gains last year over 1923. To mention some of the larger increases—North Dakota's crops jumped in value from \$160,977,000 in 1923 to \$347,515,000 in 1924; Kansas' crop value increased from \$284,158,000 to \$453,924,000, and Minnesota from \$299,709,000 to \$408,829,000.

The total area of all crops produced in the United States last year was 372,682,000 acres, or 1,005,000 acres less than in 1923. In the South the 1924 crop area was 132,054,000 acres, or an increase of 506,000 acres over 1923. The South's crop area in 1924 was about 35 per cent of the country's total

acreage. Therefore, it is seen that the South on 35 per cent of the country's crop area, as previously stated, had 40 per cent of the country's aggregate crop value in 1924.

In production the cotton crop of the country increased from 10,139,671 bales in 1923 to 13,153,000 bales in 1924. As the average price of cotton in 1923 was higher than last year, the larger cotton crop in 1924 was valued at \$1,487,225,000, without seed, or \$84,590,000 less than in 1923. The total value of the country's cotton crop in 1924, including seed, amounting to \$196,049,000, was \$1,683,274,000, compared with \$1,778,547,000 in 1923, which included seed valued at \$206,732,000.

The cotton crop in 1924 was 16 per cent of the country's aggregate crop value, corn about 23 per cent and wheat about 11 per cent. The value of the South's cotton crop was about 34 per cent of its aggregate crop value in 1924 and corn about 20 per cent. In 1924 the South produced 791,410,000 bushels of corn, or 32 per cent of the country's total corn crop.

Wheat production in 1924 was 872,673,000 bushels, valued at \$1,136,596,000, an increase in production over 1923 of 75,292,000 bushels and in value of \$400,603,000. Corn showed a decrease in production last year compared with 1923, but its value increased from \$2,217,229,000 in 1923 to \$2,405,468,000 in 1924, or a gain of \$188,239,000. Oats increased in value \$198,358,000; in fact, all grain crops made strong gains which enabled the country to show the \$858,000,000 increase in crop values last year compared with 1923.

### ESTIMATED VALUE OF FARM CROPS, BY STATES, TOTAL FOR THE SOUTH, REST OF COUNTRY AND UNITED STATES.

States	Five-year average 1918-1922	1923	1924
Alabama	\$256,977,000	\$218,572,000	\$248,994,000
Arkansas	254,157,000	199,470,000	241,636,000
Florida	81,405,000	70,800,000	82,705,000
Georgia	375,710,000	236,106,000	263,090,000
Kentucky	291,765,000	238,776,000	232,412,000
Louisiana	177,262,000	162,642,000	158,646,000
Maryland	88,620,000	70,769,000	74,091,000
Mississippi	255,294,000	189,920,000	223,024,000
Missouri	369,675,000	321,045,000	351,017,000
North Carolina	399,402,000	434,733,000	320,485,000
Oklahoma	322,749,000	275,044,000	427,934,000
South Carolina	293,460,000	251,155,000	176,728,000
Tennessee	247,847,000	204,463,000	230,333,000
Texas	773,878,000	1,067,530,000	920,081,000
Virginia	225,854,000	189,732,000	191,346,000
West Virginia	95,004,000	77,299,000	75,348,000
Total for South...	\$4,509,059,000	\$4,208,056,000	\$4,212,870,000
Maine	\$64,323,000	\$54,737,000	\$47,576,000
New Hampshire	23,103,000	20,487,000	19,811,000
Vermont	47,639,000	43,013,000	45,687,000
Massachusetts	54,335,000	56,709,000	47,541,000
Rhode Island	5,181,000	4,491,000	4,461,000
Connecticut	48,263,000	49,698,000	40,133,000
New York	376,145,000	317,532,000	309,493,000
New Jersey	74,339,000	54,960,000	60,434,000
Pennsylvania	340,507,000	258,064,000	285,757,000
Delaware	19,974,000	17,138,000	19,662,000
Ohio	395,715,000	329,146,000	330,724,000
Indiana	334,589,000	258,368,000	277,873,000
Illinois	583,961,000	459,993,000	554,108,000
Michigan	290,454,000	239,977,000	268,674,000
Wisconsin	357,902,000	266,759,000	290,257,000
Minnesota	380,585,000	299,709,000	408,829,000
Iowa	576,309,000	481,707,000	531,136,000
North Dakota	267,289,000	160,977,000	347,515,000
South Dakota	258,086,000	193,498,000	238,916,000
Nebraska	338,896,000	284,620,000	369,779,000
Kansas	406,919,000	284,158,000	453,924,000
Montana	98,197,000	100,536,000	144,463,000
Wyoming	39,443,000	30,356,000	29,098,000
Colorado	141,950,000	134,480,000	128,318,000
New Mexico	39,853,000	26,075,000	38,544,000
Arizona	35,105,000	34,605,000	35,556,000
Utah	44,259,000	36,751,000	45,030,000
Nevada	12,622,000	9,422,000	9,333,000
Idaho	97,826,000	81,489,000	84,857,000
Washington	177,056,000	150,930,000	137,815,000
Oregon	113,372,000	94,895,000	84,897,000
California	480,652,000	424,794,000	423,698,000
Total outside South...	\$6,524,849,000	\$5,260,072,000	\$6,113,899,000
Total United States...	\$11,033,908,000	\$9,468,128,000	\$10,326,769,000

## AN INTERESTING STATEMENT FROM PROFESSOR CARVER OF TUSKEGEE INSTITUTE.

**P**ROF. G. W. CARVER of Tuskegee Institute, born a slave, has made such remarkable achievements in producing many products out of peanuts and sweet potatoes that he has become a national character. But Professor Carver was very greatly misinterpreted by the New York Times, in a recent statement in regard to a visit to that city, and this misrepresentation has been still further widened by being published in the Literary Digest.

In the article in the New York Times and repeated in the Literary Digest, the reporter of the Times said:

"He said that his discoveries were direct revelations from God; that he had no great mind, and that he never used even a book in his laboratory."

And the Times added editorially: "It is for chemists to determine to what extent Dr. G. W. Carver of Tuskegee is worthy of recognition. Whether eminent or not, he seems to have done useful work in discovering and developing new uses for several common Southern products, and therefore it can be claimed for him that he has shown abilities of a sort not present in many of his race. It therefore is to be regretted, and by none more than by the intelligent members of that race, that Dr. Carver, in discussing his own achievements, should use language that reveals a complete lack of the scientific spirit. Real chemists, or at any rate other real chemists, do not scorn books out of which they can learn what other chemists have done, and they do not ascribe their successes, when they have any, to 'inspiration.' Talk of that sort simply will bring ridicule on an admirable institution, and on the race for which it has done and still is doing so much."

This is a thorough misrepresentation of Dr. Carver's position. It called forth from him a letter to the Times which is directly contrary, in most respects, to the things stated in the Times, and shows that instead of not reading books Dr. Carver has been an inveterate student of the great works on chemistry. In his letter to the Times Dr. Carver said:

"I have read with much interest your editorial pertaining to myself in the issue of November 20.

"I regret exceedingly that such a gross misunderstanding should arise as to what was meant by 'Divine inspiration.' Inspiration is never at variance with information; in fact, the more information one has, the greater will be the inspiration.

"Paul, the great scholar, says, II Timothy, 2: 15, 'Study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth.'

"Again he says in Galatians, 1: 12: 'For I neither received it of man, neither was I taught it, but by the revelation of Jesus Christ.'

"Again, many other equally strong passages could be cited, but these two are sufficient to form a base around which to cluster my remarks. In the first verse I have followed and am yet following the first word study.

"I am a graduate of the Iowa State College of Agriculture and Mechanical Arts, located at Ames, Iowa, taking two degrees in scientific agriculture. Did considerable work in Simpson College, Indianola, along the lines of art, literature and music.

"In chemistry the following persons have been my inspiration and guide for study: Justin von Liebig, Dr. Leroy J. Blinn, Dr. Ira Remsen, Drs. L. R. De Koninck, E. Dietz, Robert Mallet, William G. Valentin, J. Meritt Matthews, Edwin E. Slosson, M. Luckiesh, Harrison E. Howe, Charles Whiting Baker, Helen Abbott, Michael, Mad. Currie, Geo. J. Brush, Charles F. Chandler, G. Dragendorff, Frederick Hoffman, Josef Bersch, Arthur C. Wright, M. W. O'Brine, Lucien Geschwind, Stillman, Wiley, Dana, Richards and Woodman, Harry Snyder, Coleman and Addyman, Meade, Ostwald, Warrington, Winslow and a number of others, all of which are in my own library with but few exceptions. In botany, Loudon, Wood, Coulter Stevens, Knight, Baily, De Candolle, Pammel, Bessey, Chapman, Gray, Goodale, Youmans, Myers, Britton and Brown, Small and others. These books are also in my own library. In dietaries, Henry, Richards, Mrs.

Potter Palmer, Miles, Wing, Fletcher Berry, Kellogg, Nilson and others.

"In addition to the above, I receive the leading scientific publications. I thoroughly understand that there are scientists to whom the whole world is merely the result of chemical forces or material electrons. I do not belong to this class. I fully agree with the Rt. Rev. Irving Peake Johnson, D. D., Bishop of Colorado, in a little pamphlet entitled 'Religion and the Supernatural.' It is published and distributed by the Trinity Parish of your own city. I defy anyone who has an open mind to read this leaflet through and then deny there is such a thing as Divine inspiration.

"In evolving new creations, I am wondering of what value a book would be to the creator if he is not a master of analytical work, both qualitative and quantitative. I can see readily his need for the book from which to get his analytical methods. The master analyst needs no book; he is at liberty to take apart and put together substances, compatible or incompatible, to suit his own particular taste or fancy.

"While in your beautiful city I was struck with the large number of taros and yautias displayed in many of your markets; they are edible roots imported to this country largely from Trinidad, Porto Rico, China, Dutch Guiana and Peru. Just as soon as I saw these luscious roots, I marveled at the wonderful possibilities for their expansion. Dozens of things came to me while standing there looking at them. I would follow the same or similar lines I have pursued in developing products from the white potato. I know of no one who has ever worked with these roots in this way. I know of no book from which I can get this information, yet I will have no trouble in doing it.

"If this is not inspiration and information from a source greater than myself, or greater than anyone has wrought up to the present time, kindly tell me what it is?

"And ye shall know the truth and the truth shall make you free.—John, 8: 32.

"Science is simply the truth about anything."

## GET THE MEN "HIGHER UP."

**P**ROVISION for \$11,000,000 for prohibition enforcement in the next fiscal year has been approved by the House of Representatives and will be approved by the people. This is some \$340,000 less than the amount available this year, but, on the other hand, there is no doubt that prohibition has made much progress in the twelvemonth. Also, the House has allotted over \$20,000,000 for Coast Guard activities, part of which will be used for the curtailment of "rum-running."

Although not renowned as an advocate of prohibition, Representative La Guardia of New York voiced some truth in the debate, saying:

"Some of the riffraff among prohibition agents and political bums must be kicked out, and the enforcement unit be placed under civil service, with an effort made to procure an army of trained and honest agents, if prohibition is to be enforced. The Federal Government is only playing with the problem now. One million dollars' worth of liquor is being imported into the country daily, with equal profit to the wholesalers; such a traffic could not be carried on without the knowledge of officials charged with prohibition enforcement."

In quoting, and to some extent endorsing, these views, the MANUFACTURERS RECORD is not to be regarded as denouncing the prohibition force as a whole, or even a major percentage thereof. Undoubtedly, very many of the officers are honest and conscientious in their work—some, at times, have attained to heroism and some even have given their lives in the service.

But the fact remains that the prohibition service is at least inefficient. Either corruption or laxity, or both, is indicated in many sections of the country. But the enforcement unit, like any stream, is no higher than its source, and in very many cases these men are appointed at the instance of members of the House and Senate.

This is the day in which the people are more interested in the identity of "the man higher up" than of the "little fellow." It is high time they warned members of the Congress that unfit recommendations no longer will be tolerated.



### "KNOW VIRGINIA."

THE University of Virginia has begun the publication of a weekly sheet entitled *The University of Virginia News Letter*, largely intended for free distribution throughout the state, and especially to the newspapers of Virginia. It is edited by Dr. Wilson Gee, professor of rural economics and rural sociology. Its first issue outlined one of the chief reasons for the publication entitled "Know Virginia." Emphasis was laid upon the need of the people of Virginia knowing their own state. Pre-eminently is this true. The two issues which have already appeared show an exceedingly intelligent discussion of many of the problems which face Virginia and how to bring about a solution of them.

It is appropriate that the University of Virginia, so long a dominant influence in the educational work not only of Virginia but of the country, should begin this campaign to acquaint the people of Virginia with their economic resources, their economic potentialities, and at the same time discuss how the utilization of these resources can increase the prosperity of the state.

In a second issue the *News Letter* quotes an interesting editorial from the *Times-Dispatch* of Richmond headed "Virginia's Greatest Need," as follows:

"Virginia would do well to sit at the feet of Florida and California to learn lessons in effective advertising. Junius P. Fishburne of Roanoke, in an address the other day before the Staunton Rotary Club, declared that here in the Old Dominion we have scenic and historic assets that are unequaled in any other state. That is true. To match the beauty of a drive through the Shenandoah Valley one would have to cross the sea to another continent, and there he might be unsuccessful. The gorgeous scenic effects of Goshen Pass may be rivaled in Virginia, but nowhere else. As to places of historic interest, it is necessary only to mention Mount Vernon, Arlington, Monticello, Appomattox, Yorktown, Jamestown, Williamsburg, Richmond and a dozen battlefields where the fate of the Republic actually was decided.

"But it is not alone in scenic beauty and in historical interest that Virginia excels. The soil of the state is adapted to almost anything that grows out of the ground. Here the most diversified agriculture is possible. Climatic conditions are ideal. We have neither the blighting cold of the North nor yet the blistering heat of the South. We are the gateway between the two sections of country along the Atlantic seaboard. We have great stretches of undeveloped ground, marvelously fertile and responsive to a kindly sun. On the eastern edge of the state there is the finest natural harbor to be found at any point along the American coast. Large rivers connect it with inland ports, offering unlimited opportunity for easy, cheap transportation.

"Virginia's greatest need at this moment is effective advertising. The experience of Florida and California has served to reveal our most damaging weakness. The idea of boosting is abhorrent to many sensitive souls, but if we are to profit by the assets with which we have been blessed, we must boost. Nobody else will do it for us."

The statement from the *Times-Dispatch* is strong and true. Virginia's greatest need at this moment is, as the *Times-Dispatch* says, "effective advertising." Until this is done, the latent possibilities of Virginia will, to a large extent, remain unutilized. Billions of wealth in Virginia, unutilized as at present, are worthless so long as they are latent, and they cannot be made available until Virginia learns to know itself, and then to make itself known to the country.

Effective advertising does not merely attract the attention of outside men and money to a state—and that is good; but possibly the greatest value from some points of view of effective advertising of a state is to quicken the appreciation of its own people of its resources, keep at home thousands whose thoughts may have turned to going elsewhere, and quicken the spirit of constructive upbuilding by its own people.

One of the things which is making states that do advertise liberally grow with amazing rapidity is the enthusiasm created in the minds and hearts of the local people. By

trying to tell the world what they have, these states stir their own people and put them to work and make them take a part and an interest in what the state has and what they can accomplish by taking part in its development.

In this issue we are publishing an article about the University of Virginia, some of the things that that wonderful institution has accomplished, and some of the work that it is now seeking to do. It seems appropriate, therefore, to emphasize in this way that the *News Letter* which is now being issued by the University is a long step in the direction of making that institution of even greater service to the state than it has ever been in the past. The time has come when an institution such as the University of Virginia must not only give an academic or a legal education to the students, but must be a leader in broadening the life of the people of the whole state, of the millions who have never directly come in touch with the educational opportunities of such institutions.

We congratulate President Alderman, Professor Gee and all others connected with the University on this movement for broadening its influence throughout the state and quickening the life of all the people.

"Effective advertising" as Virginia's greatest need, as pointed out by the *Times-Dispatch*, could probably have been more effectively secured than in any other way if Virginia had taken part in the proposed Southern Exposition in New York. In failing to do that, Virginia lost a splendid opportunity to do "effective advertising" and in doing so to help stimulate the whole South by its leadership.

### THE KIND OF PUBLICITY THAT PAYS.

THE Daytona (Fla.) *News*, commenting on the rapid growth of Florida, says:

"Advertising has been one of the most powerful forces in pressing Florida forward until it has become the foremost state in the eyes of the Union."

The *News* has stated the case correctly. Advertising has been of immeasurable value to Florida. That state has known how to create the widest publicity. Its people have been ready to spend money freely to accomplish this. Probably, no other state in the Union, unless perchance California may match it, has kept step with Florida during the last 10 or 15 years in broad publicity work of many kinds. The business people of Florida, the towns, the real estate people, the banks and others have taken advertising seriously. They have not gone at it spasmodically, inserting an advertisement here and there and becoming disgusted if it did not produce immediate results. They have never grown weary in this campaign. They have recognized that it takes years to produce the cumulative effect which has brought about present conditions in that state, a state which really may be called questionably the most talked of state in the Union.

In clubs, in banks and elsewhere everybody seems to have a good word to say for Florida, and this has come about not merely because of Florida's many attractions, but because its people have, year after year, impressed these attractions upon the country. Until other states are willing to sow the same kind of seed with equal patience, with equal liberality and with equal intelligence, they need not expect to reap a harvest as great as that which Florida is reaping.

There is not a state in the South which has not many and peculiar advantages. Start with Virginia and go all the way to Texas, and sweep out to Missouri and Oklahoma, and every state in that section has some advantages not possessed in whole by other states. Every state has resources and advantages enough to justify an intensive, liberal-minded publicity campaign, carried on year after year without growing impatient because immediate results do not follow.

The kind of publicity work which Florida has done is



not simply bringing other people and their money into Florida, but is stimulating the people of Florida and stirring them to a greater activity in their admiration for their own state and a more active co-operation for its upbuilding. The greatest work that could be done at the present time for every other state in the South would be by publicity, locally and abroad, to create such a spirit of enthusiasm about the state's resources that men and women would take an active part in their utilization. This very spirit would stop the muckraker and the pessimist, stop the sensational writers who send broadcast throughout the country every unfavorable story which they can create against the South.

Enthusiasm as boundless as that of the people of Florida could be created in other Southern states by the right kind of work on the part of state officials and the newspapers of the state, the business organizations, the bankers, the merchants and the manufacturers and the railroads. It is a work in which everybody should be engaged; but unless it is undertaken with the determination to carry it through, year after year, without growing discouraged by the lack of immediate results, the money invested in a short-time campaign would be practically wasted.

Florida is an example to every other state in the South. It is true that the railroads of the South have advertised Florida more freely than they have advertised other parts of the South, but the right kind of work by other states would stimulate the railroads to do larger things for them and to co-operate with local people in the kind of campaign which they have for years carried on in behalf of Florida. Primarily, however, while giving due credit to the railroads for what they have done for Florida, the greatest credit must be given to the spirit of enthusiasm which has inspired the people of Florida, young and old, rich and poor, to make a determined effort to cause their state to become one of the great leaders in the nation's progress and to spend money freely, year after year, to accomplish that purpose.

### THE VALUE OF PUBLICITY.

A RETIRED naval officer living in New York, in a letter referring to "The South's Development," writes:

"A little incident may interest you. I have been bringing 'The South's Development' to the attention of various people that I knew would be interested, and had occasion to show it in Mr. Barron G. Collier's office. While I was discussing it with Mr. Sears, one of Mr. Collier's leading men, I saw a copy of it on his desk. He said, 'Oh, yes, we have two or more copies of it sent to us by the Baltimore Commercial Bank.' That illustrates to me the wide and quick distribution, and I hope it will continue to widen until the issue is all at work. It is a wonderful publication, and I won't be satisfied now until I get settled in Florida for life—largely the result of reading that issue of the MANUFACTURERS RECORD. When I read of Miami, St. Petersburg and Tampa, little places that I first saw in 1907 and 1911, I realize I should have camped right there the minute I was retired."

This letter is only another illustration of the value of advertising in such publications, for no one knows the extent of the influence thus set in motion.

### INFLUENTIAL OR CONSPICUOUS?

"THE twenty-five most influential preachers in America" have been selected in a voting canvas conducted by "The Christian Century" of Chicago, over 25,000 clergymen being reported as voting. Without disparagement of any of these preachers, one may ponder whether some of them may not be conspicuous, rather than influential, and whether the great influence for good of some not "elected" may not be far greater than that of the so called "influential" ones.

### OPEN SESSIONS OF THE FEDERAL RESERVE BOARD SHOULD BE DEMANDED.

"THE Federal Reserve Board itself is showing a tendency to become more and more autocratic and secretive. Its secretiveness is, in fact, a public scandal."

That statement is from an unusually well-informed man who is in the closest touch with everything that goes on in the business, or political, circles of the country. It is a serious charge, one which demands a careful study. Instead of becoming more open-minded and more open to the country, as the Federal Reserve Board should be and as we believe Governor Crissinger thoroughly desires that it shall be, if the board is becoming more and more secretive it will become more and more dangerous to the country.

The MANUFACTURERS RECORD long has advocated the opening of every meeting of the Federal Reserve Board to the public. Until that is done, and all the discussion which takes place in regard to discount rates and to other matters which control the business of this country is held in the open, we shall have an increasing suspicion on the part of a large proportion of our people as to the influence, whether it be for good or evil, of the Federal Reserve management. Every proposition which comes up in the Federal Reserve Board for the discussion of financial matters, from every angle, domestic and foreign, should be open to public study at the time. Secretiveness in diplomacy has been the curse of the world and has been largely responsible for the wars of all the ages.

Secretiveness in the financial management of all the banking and business interests of the country can be equally disastrous to the best interests of this country and of the world. Men are afraid to undertake large enterprises looking to the future, not knowing what may be the action of the Federal Reserve system. In the past men depended largely upon their own judgment as to what was wise or unwise, but today they feel compelled, to a large extent, to move slowly, day by day, not knowing what action as to discount rates the Federal Reserve Board might take. And this always creates a halting and a hesitation which is now one of the hampering restrictions upon the business of the country.

We are not unmindful of the fact that in many financial matters confidential discussions are necessary; but well-managed banks have long since abandoned the secretiveness with which they formerly directed their affairs, and now recognize that boards of directors should be in full touch constantly with every move of the officers or executive committee, and that stockholders should be kept fully advised.

The country has placed in charge of its vast financial system a small group of men whose power is without limit. For them to assume the right to hold secret meetings and to decide in these meetings every financial movement which makes for the weal, or the woe, of the country is the development of an autocratic power that, unless checked by open meetings, will result in disaster to the system itself.

### EXPORTS LARGER, IMPORTS SMALLER, IN 1924.

FOR the 12 months ending December the United States exported merchandise valued at \$4,588,266,000, an increase of \$420,773,000 over 1923. The total value of imports last year was \$3,792,065,000, or \$181,085,000 less than was reported for the 12 months of 1923.

Excess of exports over imports in 1924 was \$977,285,000, as compared with an excess of exports over imports of \$375,427,000 in 1923.

This increase in our foreign trade may give free-trade advocates food for thought.

# The University of Virginia in the Life of Virginia.

By DR. WILSON GEE, Professor of Rural Economics and Rural Sociology, University of Virginia.

One of the most unique and potent forces in American civilization is the state university. Almost within the past two decades these institutions, some of them ancient as we measure things in this part of the world, have caught a new vision of their responsibility and have extended their campuses to include the entire state.

The University of Virginia, from its inception, has been imbued with the ideal of public service. Thomas Jefferson, pre-eminent in American political history for length and quality of public career, in founding the University planned "a system of general instruction which shall reach every description of our citizens from the richest to the poorest" in the hope "that its influence on their virtue, freedom, fame and happiness will be salutary and permanent." In his inaugural address as president of the University of Virginia, Dr. Edwin A. Alderman "emphasized everywhere the idea of service due from the University to the state. \* \* \* This shall be the University for Virginia as well as the University of Virginia."

The arch of the entrance to the University of Virginia campus bears this inscription:

ENTER  
BY THIS GATEWAY  
AND SEEK  
THE WAY OF HONOR  
THE LIGHT OF TRUTH  
THE WILL TO WORK FOR MEN

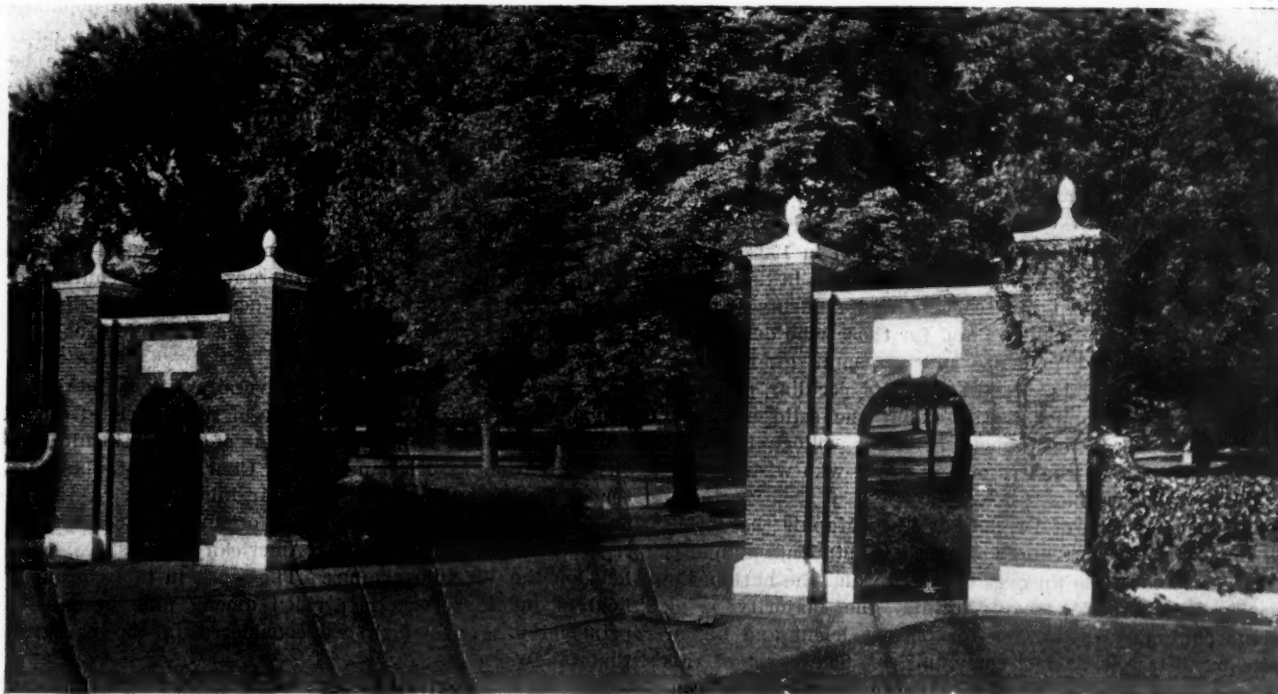
and throughout the century and more of its eventful history this splendid old school has kept state, national and international faith with the spirit of that message. That it is still doing so in a large sort of way is evident from the

piled just a few years ago on the occasion of the Centennial Celebration shows that 22,600 men have passed through the University during its century of service. It is a most significant fact that more than half of this number have given their lives to some form of public service.

Among this number is a President of the United States, a Premier of China, six United States Cabinet officers, nine ambassadors and ministers to foreign countries, two justices of the United States Supreme Court, 13 judges of the United States circuit and district courts, 19 chief justices and presidents and 74 associate justices of state supreme courts, 35 United States Senators, 129 Representatives in the United States Congress, 24 governors of states, 17 bishops of Protestant churches, 38 university and college presidents, 187 university and college professors, 20 authors, five generals and 90 colonels in the United States Army, two rear admirals, two commodores and many captains in the United States Navy, three surgeon generals in the United States Public Health Service, and a numerous army of distinguished sons in the medical, legal, engineering, business and other professions throughout the world.

In countless ways the members of the University faculty are called upon for assistance as specialists in their respective fields. Each call is welcomed and met in the spirit of gratitude and service which a state university owes to its Commonwealth.

At one time or another members of the faculty have served on most of the important boards and commissions in the state. Within the past two years this representation includes the following: State Geological Commission, State Board of Health, State Board of Education, State Board for the Ex-



GATEWAY TO CAMPUS OF UNIVERSITY OF VIRGINIA.

following brief statement of some of the more outstanding phases of its public-service utilities:

The achievements of the University in other phases of its work are great, but its contribution of intellectual leadership constitutes its supreme glory and the greatest service it can render to humanity. A partial list of eminent alumni com-

mination and Certification of Architects, Professional Engineers and Land Surveyors, Commission on Medical Education in Virginia, Governor's Advisory Board on Criminal and Mental Hygiene, Art Commission for the State of Virginia, Governor's Board of Mechanical Survey, Virginia War History Commission, President State Medical Association, Board of



Directors of Co-operative Education Association, Executive Committee State Teachers' Association, President Virginia Society for Crippled Children, Chairman State Commission for Location of School for the Blind, Board of Trustees of School for the Blind, President Virginia Section of Association of Southern Colleges and Secondary Schools, and President Virginia Academy of Sciences.

The University of Virginia Hospital is a general hospital owned by the state of Virginia and operated under the supervision and control of the University. It affords to the indigent sick skilled professional and nursing attention, and to other citizens the facilities of a modern, well-equipped hospital not otherwise within reach of those in the central and southwestern portions of the state. An idea of the steady growth of the hospital may be obtained from the fact that the number of annual admissions has increased from 850 in 1911 to 4684 in 1923, and that the number of visits in the Out-Patient Department has increased from 4071 in 1919 to 7487 in 1923.

The School of Nursing is maintained in connection with the hospital. In this course of training approximately 100 young women are being equipped to go out into the state to render this beneficent service of ministering to suffering humanity. As a part of the medical work of the University, the School of Public Health and Physical Education, with a degree of bachelor of science in public health, trains sanitarians, instructors in public health and district nurses in caring for preventive medicine in the Commonwealth.

The members of the medical faculty of the University through their teaching, their services in connection with the hospital, their research work and their participation in the meetings of medical associations within and without the state are doing much for the advancement of the medical sciences and the amelioration of human suffering. Space permits the mention of only one example. The work in pediatrics at the University of Virginia, under the leadership of Dr. L. T. Royster, is outstanding in the nation. As one phase of this field, energetically, he and Dr. Voshell have set out to relieve the situation as regards the crippled children in the state. Working through the Virginia Society for Crippled Children and the Rotary and Kiwanis clubs of the state, with the splendid co-operation of the medical forces of the respective localities, a miraculous service is being rendered these under-privileged youth of Virginia.

The University of Virginia Summer School in 1923 ranked seventh in enrollment among the summer schools in the United States. It is conducted for teachers and students in high schools, academies and colleges and for those who desire professional training for primary and grammar grade work, and for college students. It takes as its peculiar province, not the ordinary summer institute, but the solid and substantial training of high school teachers, college teachers, college students, and teachers of any grade who wish to procure professional work.

Under the direction of Dean Charles G. Maphis the enrollment has grown to an average of over 2500 students annually. While these come from all over the South and the nation, the larger proportion are from Virginia, the majority being teachers equipping themselves for more efficient and higher service in their schools and communities. The effect of this work is of untold value in the elevation of standards of content and efficiency in the elementary schools and colleges of Virginia and the nation.

Perhaps no state can boast of a more thorough scientific knowledge of its mineral resources than can Virginia. This is due to the fact that the late Dr. T. L. Watson, state geologist and professor of economic geology in the University of Virginia, was with his staff long engaged in a thoroughgoing study of this phase of the life of the state.

The quarters of the Geological Survey are the Brooks Museum on the University campus, and from this source is available information and help in the scientific exploitation of the mineral resources of Virginia.

The State Forester, Dr. Chapin Jones, is also professor of forestry in the University of Virginia. The law establishing this work gives the state forester the responsibility for "the supervision and direction of all forest interests and of all matters pertaining to forestry within the state." Through the agency of this work Virginia is developing a constructive forest policy, already productive of great good, but with even greater values for the times that lie ahead when timber and fuel needs are certain to become more acute.

The Curry Memorial School of Education, established in 1905 and named for the distinguished Southern educator, Dr. J. L. M. Curry, soon expanded into a department of the University, co-ordinate in rank with law, medicine and engineering. In addition to affording opportunities for study and training of a professional nature, the department offers its services to school authorities throughout Virginia, with a desire to co-operate in the solution of practical educational problems and in the furtherance of public education. Within the last two or three years members of the faculty of the education department have assisted in making constructive educational surveys of two cities and ten or more counties in the state.

A handsome endowment for the McIntire School of Commerce of the University has made possible the addition of a number of instructors in commerce and business administration, and has enabled the University of Virginia to take a leading position in business instruction among Southern universities. That the work is rendering a substantial service to the business interests of the state is becoming more manifest each year in the records of the graduates in commerce courses.

Virginia is approximately 71 per cent rural in population. To more definitely serve this great portion of the citizenship of the state both research and instruction have been established in rural life studies. Intensive economic and social surveys are being made of various representative counties. These studies throw light on present conditions in these units and pave the way for intelligent programs of continued progress. In addition, special problems in the life of the Commonwealth are being studied in order that more light may be thrown upon such matters as rural depopulation, farm tenancy, taxation, illiteracy, country church decadence, standards of living, rural education, etc. Such studies are well calculated to bring a state to a wider self-realization of its best possibilities.

For a number of years the University has maintained an Extension Division. That it is one of the best is attested by the fact that last year the president of the National University Extension Association was Dr. Charles G. Maphis, Director of Extension, University of Virginia, and that the next annual meeting of that important organization, composed of representatives of the leading American universities, will be held on the Virginia campus. The work in this conspicuous field of public service is divided among nine bureaus, the principal ones of which are considered in the paragraphs that follow.

The work of extension and teaching is designed to carry the University lecture-room to the people of the state who are interested in what the University offers but for various reasons cannot give up their means of livelihood to attend in residence the classes on the campus. The present enrollment in these extension classes is about 500. Some twenty courses are offered in nine Virginia cities, and the popularity of the work is increasing.

The main undertaking of the bureau of Debate and Public



Discussion is the administration and supervision of the literary activities of the Virginia High School Literary and Athletic League, a statewide organization of the secondary schools in Virginia. Under its auspices, annual contests in debating, reading, public speaking, publications and poetry and short-story composition are conducted for the schools. In addition to publishing the rules and regulations of the League, a bulletin of selected material with references relating to the subject for debate is printed and distributed without charge to the schools. This work has greatly stimulated interest in high school debates throughout the state, and has encouraged literary effort in the same grade of schools.

Through the Virginia High School Literary and Athletic League the Bureau of Physical Education and High School Athletics directs a major athletic organization for the larger high schools. District and state championships are determined in football, boys' and girls' basketball and baseball, while an annual track meet is held for all secondary schools. A State Athletic Conference is held at the end of each session for the purpose of discussing high school athletics and taking any steps that may make for their improvement. The efforts of this bureau have resulted not only in the introduction of a more orderly system of competition among the public high schools, but in the promotion of cleaner athletics and a higher type of sportsmanship.

Almost coextensive with the ratification of the Constitutional Amendment according to women the right to vote was the addition of an extension instructor in citizenship education. This work has contributed much in equipping the women of the state to exercise wisely their newly acquired right of suffrage. The instructor in this work is secretary of the Virginia League of Women Voters.

There is a demand from numerous sources for package libraries on different subjects. Such libraries are exceedingly useful to students preparing for debates, for essay contests, state and national; to teachers studying special topics and to the citizen of the state in his desire to study seriously and thoroughly some subject in current affairs. Although this work is in its infancy, last year packages were sent to almost six hundred applicants.

The Extension Division is the distributing agency for the reading courses outlined by the United States Bureau of Education. Co-operative arrangements have been perfected with the Virginia State Library whereby the necessary books may be borrowed by paying the cost of carriage each way. A long list of courses is available and more will be added from time to time.

Lectures by members of the faculty of a popular or technical nature or addresses for commencement or other special occasions are furnished any community which will pay the traveling expenses of the lecturer. This is one of the most popular forms of extension work, and the applications for speakers are numerous throughout the state; in fact, so much so at commencement season that it is almost impossible for the University to meet the demand.

Correspondence courses are being inaugurated this session, and for a long time short courses, which are lecture conferences lasting from several days to a week, have been offered in the study of some particular problem in which any group of persons may be interested. Each year sees a wider reach in the scope and effectiveness of the work of the Extension Division.

A long list of bulletins and a half-dozen or more periodicals emanate from the University. The bulletins are distributed widely throughout the state to selected mailing lists of those interested in the particular subject to which the bulletin applies. Besides the student publications, consisting of a college daily (College Topics), a magazine of humor (The Virginia Reel) and a literary magazine (The Virginia Maga-

zine), the Virginia Law Review is a journal devoted to the discussion of general questions of American jurisprudence, published monthly by the students of the Law Department. The Engineering Journal is a medium in which may be published results of individual experience and research on the part of alumni, instructors and students engaged in the fields of engineering and applied science.

The Alumni Association issues from its headquarters on the campus a monthly publication, The Alumni News. The Alumni Bulletin is edited by the University faculty and is published monthly by the University.

Beginning this session, the University will publish The Virginia Quarterly Review. This journal promises a large field of usefulness. It is projected upon similar lines as the Yale Review. It will not be sectional, and will deal in a large sort of way with notable contributions in the fields of literature, society and politics.

It would be unjust and this account incomplete if the work of three other phases of the life of the University which sustain a very vital relationship to the welfare of the state were not mentioned: (1) The Department of Engineering, in which instruction is given and service rendered in the fields of highway work and other forms of engineering activities. (2) The Department of Fine Arts, including art, architecture and music, elevating the standards and furnishing communities with higher notions of what is correct in taste and beautiful in form. (3) The large expansion of the instruction in the Social Sciences—history, sociology and economics—in the belief that one of the prime needs of any democratic state is better trained men in these fields as a very necessary adjunct to the most effective local and national performance of the duties of citizenship.

This review, while brief and incomplete, is sufficient to show that through the years the University of Virginia has not been unmindful of the high ideals of its founder and guiding spirit. Inherent in its traditions is a high and holy, deep and abiding love for humanity. Here, there and yonder, "line upon line, line upon line, precept upon precept, precept upon precept," it has broadened its sphere of usefulness until every remote recess of the life of the state bears some wholesome impress of its beneficent influence. The most intense desire of the University of Virginia is that it may multiply in unlimited degree and unstintedly this already vast record of service throughout the length and breadth of the noblest state and nation of them all. May God give her the vision, and may the people of Virginia provide the support to realize in the fullest measure her mission of "a city set on a hill"!

#### Architect for \$435,000 Hotel at Concord.

Concord, N. C.—W. L. Stoddart of New York has been selected as architect for the new hotel to be erected here at an approximate cost of \$435,000, including furnishings. The building, to be located on the site of the St. Cloud Hotel, will contain 100 rooms with bath, and will provide space for five stores on the ground floor and an assembly room on the second. The Concord National Bank will occupy a portion of the structure, fronting 70 feet on one street and 42 feet on another. The hotel will have a frontage of 86.5 feet. It is being promoted by the Chamber of Commerce and other interests.

#### Plan \$2,000,000 Apartment House at Miami.

A \$2,000,000 apartment-house will be erected at Miami, Fla., by the Fred F. French Company, architects and contractors, of New York, according to their advices to the MANUFACTURERS RECORD. The building will be 11 stories, 105 by 175 feet, of reinforced concrete. Construction is expected to begin about February 15.

## **\$900,000 PRINTING PLANT UNDER CONSTRUCTION AT ST. LOUIS.**

**To Have 300,000 Square Feet Floor Space—Annual Printing Output Nearly 12,000,000 Pounds.**

Construction has begun at St. Louis, Mo., on a printing plant for the Woodward & Tiernan Printing Co., which will cost ultimately \$900,000. The project represents over three years of planning, as ground was purchased several years ago with the intention of immediately beginning construction, but action was postponed. In October of last year plans were finally accepted. Excavating work has now been finished, and as soon as weather conditions permit the superstructure will get under way.

The plant will cover a site at Tower Grove and Race Course avenues, 200 by 500 feet; it will be three stories high. Over 500 people will be employed. It will give an increased capacity of 30 per cent, but judging from the company's rapid growth in the past ten years this increase will soon be taken up.

The business of the company has been standardized and simplified in the past two years in preparation for maximum production of labels, packages, inserts, booklets, showcards and calendars.

The new plant will be able to work more productively on big scale jobs or what in effect is a pure tonnage basis. Actual deliveries to customers for the year 1924 amounted to nearly 9,000,000 pounds. In April, August, September and October an average of nearly 1,000,000 pounds of finished products per month was shipped as far west as San Francisco and east to New York.

Counting the paper coming from the mills as raw material, which goes out as finished printing products, the company handles 375 cars annually, or 12 trainloads of 30 cars each. The new plant site is located therefore on a private spur of the Missouri Pacific tracks where the job of handling is simplified. The paper comes in at one end of the big building and goes out the other end a finished product. While waste is kept to a minimum by factory supervision, the actual waste paper alone totals annually about 1200 tons.

The comfort of the workers has been given especial attention in the new plant. A cafeteria serving 500 at a time will be a feature. Everything will be done to expedite handling and reduce labor. Many of the company's most valued employees have come up from office boy ranks. In several instances three generations of the same family are represented,

and a recent check-up showed an average of 14 years' service for all employees.

The company was established 65 years ago as a one-man shop, and is entirely owned and controlled by members of the Woodward family. Its present officers are Louis B. Woodward, president and treasurer; Harold E. Woodward, vice-president and general manager, and Daniel J. Kerwin, secretary.

The contractor for the new plant is the Fruin-Colnon Construction Co. and the architects are Klipstein & Rathmann, both of St. Louis.

Sub-contracts have been let to St. Louis firms as follows: Sprinkler system, Crowder Bros.; structural steel, Missouri Bridge & Iron Co.; reinforcing steel, Missouri Rolling Mill Corp.; concrete materials, Missouri Portland Cement Co.; steel sash, David Lupton's Sons Company and Truscon Steel Co.

## **Alabama Power Company Takes Over Florence Utilities at \$2,800,000.**

[Telegram to Manufacturers Record.]

Florence, Ala., January 16.

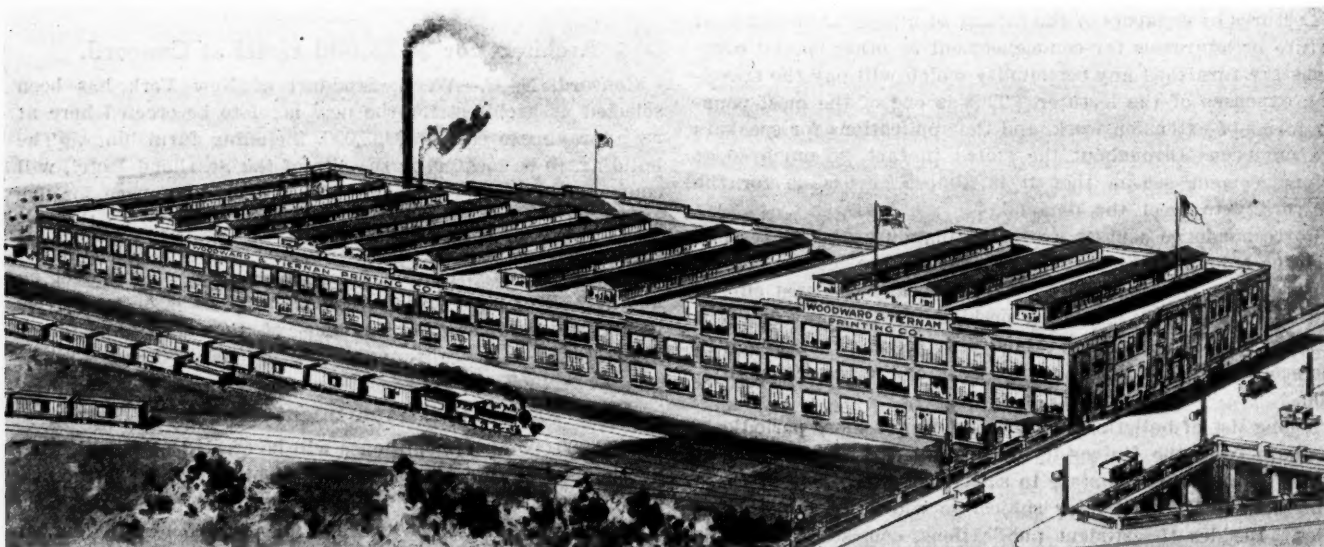
Property of Sheffield Co., owners and operators of street-car lines and electric business here, transferred entire interest to Alabama Power Co., purchase recently announced. Two million eight hundred thousand dollars paid for all holdings, including large tracts land in district. Alabama Power Co. will operate property, using hydro-electric power in future, thus reducing all rates in Florence for lights and power approximately 25 per cent. With Wilson dam in full operation, three steam plants located here, and with connection with Alabama Power Co. dams on Coosa River and their steam plants throughout the state, Florence will have available more than 1,000,000 horsepower of electric energy.

CHAMBER OF COMMERCE,

R. M. JONES, Secretary.

## **Contract for Hotel Rolyat at St. Petersburg.**

St. Petersburg, Fla.—Contract has been awarded to the George A. Fuller Co. of New York and Miami, by the Pasadena Estates of this city, for the erection of Hotel Rolyat in the Country Club section of the company's property. The structure will occupy a site of 10 acres to be beautified by tropical plants, and will be of Spanish architecture. Kiehnell & Elliott of Miami are the architects. Construction is expected to begin by February 1.



**\$900,000 PRINTING PLANT OF WOODWARD & TIERNAN CO. NOW BEING ERECTED AT ST. LOUIS.**



# Senator Sherman on the Child Labor Amendment.

By Former Senator LAWRENCE Y. SHERMAN of Illinois, now of Daytona Beach, Fla.

The proposed Child Labor Amendment substitutes the Government for the family. Instead of the parent it gives a departmental inspector. If modern life, so-called, has weakened the bonds of the domestic relation, this Amendment places a premium on its further weakening by taking the parent obligation from the mother and father and placing it in a Washington bureau. The ratification of this proposed Amendment is a confession of the loss of faith in American parenthood.

It is an unwarranted extension of the interference of Government into the private affairs of the family. It is the first and a long step toward taking over the child by the Government. It is approved by every Socialist. It has the active support of apostles of free love, experimental marriage, childless spinsters of both sexes and those who denounce the marriage contract and spend their time escaping from the sheriff for wife and child abandonment, and who all firmly believe the State ought to support their children and save them the trouble.

The opposition has been called sordid. The measure itself is the most selfish and heartless of the many fantastic schemes

hatched by dreamers and Marxian philosophers to destroy the family. Perverting and misleading, as it does, the protective impulse toward children, it abuses this sentiment and converts it into an arbitrary seizure of all child life to the exclusion of the family until the age of 18 is reached. No believer in the domestic relation or the American family can support it.

If there are some cases of irresponsible parents who overwork and abuse child life, they can and ought to be reached by the state.

The great body of crimes and misdemeanors is now punished by the states. That jurisdiction ought to remain there.

The 48 states are the broad foundation of Federal Government. Every subtraction of power to center it in a Washington bureau weakens the state and narrows the local theater for training the people in self-government. The reserved powers of the state are constantly attacked. This Amendment forges the strongest instrument in centralized power usurped from the states and placed in distant hands over the most vital relation of human life since the formation of the Government.

## The Proposed Twentieth Amendment.

SHALL ALL PERSONS UNDER EIGHTEEN BE FEDERALIZED, SOVIETIZED AND STANDARDIZED?

By J. W. CAMPBELL, Hico, W. Va.

The proposed Twentieth Amendment to the Constitution of the United States reads as follows:

Section 1—The Congress shall have power to limit, regulate and prohibit the labor of persons under 18 years of age.

Section 2—The power of the several states is unimpaired by this article, except that the operation of the state laws shall be suspended to the extent necessary to give effect to legislation enacted by Congress.

This Amendment, if ratified by 36 states, will:

1. Regulate labor, but not the employer.
2. Destroy the power of states.
3. Destroy local self-government.
4. It will Federalize and Russianize and Sovietize the American child.
5. Invade the sacred precincts of the family and the home, two of our most sacred institutions.
6. It is bad in precedent, and will open the way for the further surrender of state and individual rights. No state in the Union has had conferred upon it so much unrestricted power for its legislature by constitutional grant. The people in no state have conferred upon the legislature through constitutional grant the power to limit, regulate and prohibit the labor of persons under 18 years of age; therefore, no legislature has the power under the ratification laws thereof to surrender a power that has never been granted it by the people, unless the people now by referendum vote that power to their legislature.
7. Create a Federal Dictatorial Bureau with unlimited powers to expend money, create positions for welfare workers, with unlimited rules and regulations of their own creation; and with it will originate ultimately relief measures for clothing, sustenance and education of all indigent persons under 18 years of age.
8. With the creation of these bureaus will come measures to pay these self-constituted welfare old-maids and childless old dames for their services, and new modes of taxation will have to be devised to originate the multiplied millions for these self-imposed tasks.
9. It opens the gates for the final and complete overthrow of the personal rights of the people, ending in the overthrow of our sacred free institutions, and with the complete ownership of all private property and its control by rabid Communists and Socialists. It will be the beginning of the reign of the Internationale.

Where did the idea originate? From within our boundaries

or without? Within the Congress or without? From the mothers of the land or from those so-called social welfare workers, consisting of childless old dames and unmarried old dames that now preside over these eighteen women's organizations alleged to be behind the proposed Amendment?

It was born in Russia and exported to the United States of America.

Senator King, Utah, speaking in the Senate on this question said:

"Every Bolshevik, every extreme Communist and Socialist is back of the measure. The Bolsheviks of Russia were familiar with the scheme that was about to be launched to amend our Constitution. In conversation with one of the leading Bolsheviks in the city of Moscow, one of the educators (Prof. Bullshevskia Juvenellinsky), when I was there last September and October, I was remonstrating with him about the scheme of the Bolsheviks to have the state take charge of the children. 'Why,' he said, 'you are coming to that \* \* \* A number of Socialists in the United States,' and he mentioned a number of names, but I shall not mention them here, 'are back of the movement to amend your Constitution of the United States, and it will be amended, and you will transfer to the Federal Government the power which the Bolshevik is asserting now over the young people of the state.'"

The president of the American Child Hygiene Association, at the hearings on the Physical Education bill, January 12, 1921, declared that "the child is not private property to be controlled and treated at the will of the parent, but public, belonging to the public, and must be brought up for the good of society."

Mrs. Florence Kelley (Wishnewetsky), a recognized leader in social welfare legislation, president of the Intercollegiate Socialist League, an intentionalist, etc., etc., and the chief promoter of this Amendment before the Senate committee, said:

"It is unsafe to leave children to the tender mercies of the pressure of ignorant parents."

It is only necessary to read the hearings before the committees having this Amendment in charge for the Congress,

and to know the records of its proponents, to realize that the above quotations reflect the views of most of these agitators for the Amendment. They claim 18 women's organizations are back of this proposed Amendment. It would be more truthful to say that eighteen self-constituted heads are the real leaders of this anti-American, Bolshevik idea.

These Russian Reds have formulated many arguments and assigned numerous reasons for the adoption of this Amendment, among which I will enumerate 10, and following them will give the answers to them in the same enumerated order in terms of Americanism.

Reasons advanced by the Reds for the Amendment:

1. This is a nation, not a confederation.
2. Nation should prevail over states by increasingly centralized power at Washington administered by Federal bureaus.
3. Let national laws be brief, details to be worked out and covered in rules and regulations made by the bureaus.
4. Let Congress govern labor and capital, marriage and divorce, education and elections, transportation and taxation, so that the laws may be uniform throughout the United States of America.
5. If any state fails to come up to the national standard as to child labor, education, etc., the nation should enforce its standards upon the people of such state.
6. Unless Congress makes uniform laws, to be enforced by national authority, Northern cotton mills, which may not employ child labor, cannot compete with Southern cotton mills which do. Ditto, other industries.
7. The Twentieth Amendment would apply only to "labor" in mills, not to other work.
8. Anyhow, Congress could be trusted not to abuse the power granted it by this Amendment.
9. Congress should not allow any child to be abused or exploited, but every child should be happy and play until it is 18, except when it is in school being educated according to national standards. This Amendment will reform most of all abuse of child labor on farms.
10. Experts and specialists in the national children's bureau and the proposed United States Department of Education certainly can direct child labor and education (including adequate preparation for the next war) more efficiently than the average parent or teacher under inefficient state and local supervision.

Reasons against the Amendment, the answers corresponding to the numbers above:

1. This is a union of sovereign states, one and indivisible.
2. Confine national authority to national affairs. Encourage each state to make the most of its opportunities and retained powers; no dictation from Washington in state and local affairs.
3. Acts of Congress should be specific; no bureaucrat should have power to make and unmake criminals with the stroke of a pen.
4. Let the citizens of each state govern themselves and their institutions within their own borders: Congress to control only interstate, national and foreign relations.
5. Instead of dictation by Federal authority, the citizenry of each state should be aroused to improve their own institutions and through their own efforts. Avoid the evils of "standardizing" human beings, each of whom are different.
6. That is mostly bunk, not so, and untrue. More children of 10 to 15 are working in Massachusetts mills than in several Southern states. Alabama's new child labor law compares favorably with that of Massachusetts. And, last election, the people of Massachusetts by referendum voted down this proposed Sovietized Amendment by an overwhelming vote.
7. On the contrary, no such distinction is provided by the Amendment. Labor is work the world over; yes, even yet in Russia, to where Emma Goldman was deported and against whose laws she and other deported ones now cry out, after fleeing from that country, that "they are hell upside down."
8. The safest way to safeguard rights, duties and privileges of the individual, the family, and the school is to leave them in charge of the state, whose people make their own laws, and where expressions of local self-government will be heeded and enforced. Surrender nothing. We have already surrendered too much. Too many national laws are not enforced and unenforceable, as well as some of the amendments.
9. State laws in almost every state protect the children, but not against work up to 18. No greater evil can befall a

child than to prevent it from working until it is 18, or learning to work. Because farm and rural home afford wide variety of experience, along with the country school, they have produced and trained the brain and brawn, will and energy, that have made America the greatest nation under the sun.

10. Diametrically opposed to this is the eternal truth taught by all human experience, that personal initiative, co-operating through the agencies of the citizen's own community and state, is vastly superior to dictation from a Federal Russianized bureaucrat or a prefect at Washington. Germany went to hell because its bureaucrats were everything and its citizens nothing, its children bred and reared for cannon fodder.

Anticipating that this Amendment will win, a measure is already before Congress that may subject the public school system in each community to dictation from Washington. Propaganda for this Sterling-Reed bill has become so rabid that anyone who protests is denounced by its advocates as an enemy of the public schools, if not a traitor to the country. They do this with an air of assumption, as if the people had already surrendered their liberties to this proposed big merger for standardizing every boy and girl of school age in all the states of the Union. What will our progeny be when they completely standardize them? It will mean evolution gone to its final destiny. We will then all be, act, look and do alike and feel alike.

These are two parts of one wrong. The close connection is proven by the remarkable rural school news letter, No. 19, sent all over the country by the United States Bureau of Education. It declared that overproduction and low prices of produce (the farmer's) are due to child labor, and adds: "When government arbitrarily removes a big surplus labor element those who have real American ideals for their children will hail the act as a godsend." Verily, they are puppies from the same litter.

Such bureaucratic slander, dictation and misrepresentation are without a parallel in our history. Every farmer in the land knows persons under 18 are not exploited. A big surplus element is equally false, as every farmer knows from personal experience. Save us from being controlled by such an ignoramus.

Still worse yet is it for this bureau to set itself up by dictating that only those farmers "have real American ideals" who "hail as a godsend" this proposed Twentieth Amendment, whereby government may "arbitrarily remove the big surplus labor element." Here we have dictation in its baldest, most reprehensible, most irresponsible form. When a United States Bureau of Education, clothed with almost no authority, thus assumes to dictate to the American people, what will be this dictator's tyranny should it be clothed with the autocratic authority now asked by the proposed Federal Department of Education, coupled with the prohibition of labor up to 18?

Julia Lathrop, former chief of the Federal children's bureau from whose tyranny (if the Twentieth Amendment prevails) there might be no appeal, said in a public speech at Washington July 15, 1919, "The great advantage for us in a discussion of this English measure (the Fisher bill) is that it shows us a way to standardize education in the interests of the future, and at the same time get rid of the one thing we have never dared attack—rural child labor." There you have the gist of the matter, with the covers removed. Yet, they now deny that they want to control the farm children's labor up to 18, or to any age.

Legal self-government is the best tried and true remedy for a democratic form of government. Your family and your home are your most sacred institutions, equally so with your personal independence of thought and action. Local public opinion, local ordinances and the laws of your state aim to secure and insure that the relations of parent and child shall be right. Likewise, the public schools are under direct



control of the people, through committees elected by the people and by superintendents responsible to the people, with supervision by your state. This method is the ripe fruition of 150 years' experience in local self-government. It combines individual initiative with local control and state supervision.

Now, you are asked to cast all this aside and to superimpose upon the family, the youth and the school the overlordship of a Federal dictator. This would out-Prussianize Prussia, and go Russia one better! Who wants it? It is now at your door, a suppliant and a sycophant.

In 1912, the Progressive party proposed the regulation of the employment of children in factory, mine and other gainful occupations. Since then, practically all the states have some regulation for juvenile labor in dangerous or unhealthy occupations. Of the 48 states, 41 prohibit children 14 and under from working in factories, etc.; five states at or under 15, and two states at or under 16 years. It appears all states have regulatory laws.

According to official figures of the 1920 census, of the 12,502,582 children in the United States between the ages of 10 and 15, there were only 1,060,858 of these engaged in gainful occupations. Of these, 61 per cent were engaged in agricultural pursuits. It further appears that of the 413,549 children between 10 and 15 engaged in non-agricultural pursuits, 364,444 of such children were 14 to 15, and 49,105 between 10 and 13.

Senator Wadsworth of New York, speaking in the Senate, May 29, 1924, said:

"Undoubtedly some of these 49,000 are employed in such fashion as to cause concern. Incidentally, more than one-fourth of these were newsboys. For example, there were but 622 cotton-mill operatives in this group, 404 being employed in the states of North Carolina, Georgia, South Carolina and Alabama, and 218 in all the other states. So, it will be seen that it whittles down to almost nothing. There are only 404 in the four Southern cotton-mill states, and there is only a bare presumption that any of the 404 were illegally employed—that is, below the age limit. A great deal of the outcry and uproar has been directed at those four states on account of the alleged conditions existing in the cotton mills and we find the conditions do not exist."

The director of the census, writing to the House Judiciary Committee and speaking of the 647,309 engaged in agricultural pursuits, remarked that "they probably were not, as a matter of fact, working with any degree of regularity or continuity. \* \* \* The work of these children doubtless varied from a few weeks or months each year to regular employment throughout the year. In fact, 88 per cent of these children worked on farms of their parents—at home."

The Amendment does not confer the power to prescribe the conditions of the factory, mine, mill, railroad or workshop, so as to provide protection, and neither does it the employment of these persons. There is a vast difference between the power to regulate conditions in factories, etc., at which "such persons" may work, or his employment, and the power to limit, regulate and prohibit his labor itself.

This would destroy initiative. How many Lincolns, Franklins, Carnegies, etc., would such a law produce which would thus stop him from free and untrammelled labor? No boy of genius could rise above the common herd, as they want to standardize them, for the reason that the great majority would be Federal serfs, without the power lawfully, as well as inherently, to direct their own destinies and rise to fame and fortune. They must all be standardized with the same Bolshevik brand.

The Tenth Amendment to the United States organic laws, "The powers not granted to the United States by the Constitution, nor prohibited by it to the states, are reserved to the states respectively or to the people," is the wisdom of the best minds, and let us perpetuate it as the glorious heritage of local self-government.

## Interesting Discussion of Vital Questions Called Forth by "The South's Development."

Dallas, Texas, December 26.

I duly received the MANUFACTURERS RECORD's massive compendium, "The South's Development."

I have said "compendium," and yet this wonderful array of facts is scarcely an abridgment. You have given a most intelligent study of the South and its resources. They are so great and all-embracing that only so able a penman as yourself could condense them as in this splendid volume. The whole execution and the portrayal must excite the wonder and admiration of every Southerner, to give you applause for thus setting forth the riches of the South.

There should be nothing to impede the South's progress. Reconstructed out of chaos, no section of this vast domain equals her in accomplishments. Only the frothing politicians can stay her. I have in mind such men as espouse the child labor law. I think, too, of politicians who would curry favor of the labor unions, but I would put above all the manhood and womanhood of this beautiful land of ours. I would tell to these truants of economy who exclaim, "Piffle! the Amendment is not susceptible of absurd interpretations," when those opposed to the Amendment assert that power is granted to Congress to prohibit the labor of persons under 18 years of age, that, knowing the aptness of Congress to exercise its powers, I construe that language to be absolute in its delegation of power to Congress.

That Amendment does not particularize, it is true; it states with merciless coldness: "Congress shall have power," and that "states' laws shall be suspended." A mere tyro should be able to interpret that. It does not say Congress "may" have power, but, as in Section 1, "shall regulate and prohibit the labor of persons under 18 years of age." The whole scheme is socialistic, fanatical and brazenly diabolical. Once you let the youth of the country know that the Federal Government is its mentor, and parents are deprived of their moral and mental training, the new state of children will be one of slothful slavery. This solicitude for the child is meaningless, but hurtful.

In conjunction with this Amendment, the country should take under serious consideration the Federal Educational bill. That bill in its ultimate, if passed, will force white children to sit alongside negroes in the public schools.

It is incomprehensible that a Southern man, brought up under the doctrines of states' rights, could for a moment forget his teachings and his rearing. The MANUFACTURERS RECORD is doing a great work in denouncing that Amendment. Keep it up, else the manhood of the country will deteriorate to a point of decay.

JOHN SEVIER ALDEHOFF.

## West Virginia Governor and a Federal Judge Oppose Youthful Idleness.

Charleston, W. Va., January 19—[Special.]—Governor E. F. Morgan of West Virginia has expressed himself in his biennial message to the West Virginia Legislature as being opposed to the ratification of the Child Labor Amendment, saying:

"It is regrettable that the abuses in connection with the employment of children appeared to be so intolerable in a few of the states that Congress was moved to request that authority be granted to the Federal Government to extend its paternalistic arms around all persons in the United States under the age of 18 years, and promulgate and enforce police regulations that properly belong to the several states."

In charging the Federal grand jury at Charleston, Federal Judge George W. McClintic, a former member of the West Virginia Legislature, has placed himself squarely on record as being opposed to the ratification of the proposed Amendment, saying:

"Child labor might ruin its tens or hundreds physically. Child idleness ruins physically and morally its thousands and tens of thousands. I hope that the legislature of West Virginia in considering this Amendment will not be guided by sentiment, but shall be guided by sense and experience. I hope the legislature will reject this Amendment."

"During the three years and six months I have been on this bench, between 250 and 300 boys and girls in their teens have been brought into this court for crimes which were the product of idleness and the lack of care of their parents."

"Honest but misguided people are backing up this sugges-

tion of labor unions and others. They don't see the horrors of idleness. They are not in position to see how idleness wrecks the precious lives of their children. Their misguided energies get them into crimes. Immorality is a product of idleness. You will have before you at least six cases where boys under 18 years old have stolen from box cars, from the United States mails or have stolen automobiles. Their cases result from misguided energies. Sometimes their fathers come to me and say that they cannot do anything with the boy, and that he is too young to work. A boy admitted his crimes and said that he could not get work and drifted into stealing. He asked to be sent to an institution where he could learn a trade. A miner who has two boys came to me and said that he could not take care of his boys. He could not take them to work with him and they were drifting into crime from idleness.

"To make the age limit for work higher would increase juvenile crimes.

"Delinquency in boys and girls usually results from three

things—lack of attention on the part of the parents, idleness and lack of employment. Any labor is dignified and honest, and children should be trained to see this. Labor keeps the body, mind and conscience in a healthy condition, developing the physical, mental and moral being. It is idleness that is destructive, not labor. What a child is taught during his early years will influence his whole life. If he is brought up in the belief that work is sensible and proper he will always feel it.

"The Kanawha County Juvenile Court handles many cases which are the result of idleness and the indifference of parents. A man whose property is valued at \$50,000 has his two sons, 14 and 15 years old, sent to a reform school—he said he could do nothing with them. He was busy accumulating money and was letting his boys go straight to hell. Many parents are like that. They want the schools or the Government to raise their children. It is not the duty of the school teacher to raise their children. This duty lies at home."

## Why a Philadelphia Woman Who Has Led in Child Labor Betterment Opposes the So-Called Child Labor Amendment.

By FRANCIS RALSTON WELSH, Philadelphia.

The leaders of the proponents of this Amendment are putting in circulation the grossest misstatements on the subject and appealing, not to reason and sound knowledge, but to misguided sentiment, passion and prejudice.

They state, first, that only manufacturers and their agents are opposed to the Amendment. Nothing could be more utterly false. The manufacturers who are opposed to it constitute but a small minority of its opponents, and many of those who have the interest of the children really at heart and are best informed and who have done most for the interests of children and for wise laws for the regulation of the occupation of children and their safeguarding are among the strongest opponents of the Child Labor Amendment, and on purely humanitarian grounds.

Its proponents further state that the Amendment is not meant to apply to all classes of occupation or kinds of work that children may be engaged in, including work on farms, in the house, etc. This is directly the opposite of the truth. The history of the law shows that the Socialistic element that engineered its passage chose the word "labor" because it included every sort of work and left practically nothing out, and that they resisted any limitation whatever in order that the term might be the most inclusive possible. The Amendment is and was meant to be most sweeping. Why are such sweeping powers asked for if it is not intended to use them? Less than 3 per cent of the children occupied in work of one sort or another are employed in factories.

Third, it should be noted that the Socialists and their friends are the chief original sponsors for this Amendment. The noted disloyalist and Socialist, Victor Berger, said that he was for the Amendment because it was a Socialist measure, and others have expressed themselves to like effect,

while the American Federation of Labor are for it because they think they can thereby lessen the number of workers who do not pay tribute to their leaders and so gain for their leaders greater control over public affairs and compel more men to be tributaries of theirs—in other words, can gain more power for themselves.

The history or Congress shows that it is always striving to exceed its authority and not to limit it, and many laws have been declared unconstitutional because Congress sought to go beyond its powers. The very attempts of Congress to regulate child labor by indirect means show this, as two attempts of theirs far exceeded their authority and were declared unconstitutional. It was then that those socialistically inclined went in for the Child Labor Amendment to the Constitution and enlisted on their side many kind-hearted people, to whose hearts rather than heads they appealed, and to whom many misleading statements were made to gain their ends.

Almost invariably people who take care to inform themselves as to what the Child Labor Amendment really is and means and is likely to accomplish oppose the Amendment, and one of its chief opponents is the woman who has done more for child welfare than probably any other person in the state of Pennsylvania, and who devotes her life to this end. This woman has had practical experience in thousands of cases and has been a very strong advocate of, and had a very influential part in having passed, much of the Pennsylvania child labor legislation. She believes, and rightly, that the Child Labor Amendment would be one of the most injurious things for children that could be done, and her belief is based on an exceptionally broad and long-continued practical experience and fostered by a broad and wise humanity and real knowledge of the subject.

### Hand Tools Industry, 1923.

The Department of Commerce announces that in 1923 the establishments engaged primarily in the manufacture of hand tools, other than edge tools, files and saws, reported products valued at \$123,160,303, an increase of 74.6 per cent as compared with 1921, the last preceding census year. Of this total, \$15,841,086 was contributed by establishments engaged primarily in the manufacture of shovels, spades, scoops and hoes; \$8,300,879, by those whose principal products were carpenters' tools; \$43,655,553, by manufacturers of machinists' tools, and \$55,362,785, by establishments engaged in the manufacture of all other classes of tools (such as tools for bakers, canners, confectioners, coopers, glass workers, iron workers, jewelers, lumbermen, street pavers, stone and marble workers and plumbers) coming within the scope of

the industry. In addition, these classes of tools were manufactured to some extent as secondary products by establishments engaged primarily in other industries.

#### MANUFACTURE OF HAND TOOLS.

	Preliminary 1923	Final 1921
Number of establishments.....	700	714
Wage earners (average number).....	29,100	19,453
Wages .....	\$37,168,834	\$22,643,499
Products, total value.....	\$123,160,303	\$70,523,416
Shovels, spades, scoops and hoes*.....	\$15,841,086	\$7,043,282
Carpenters' tools, not including saws and edge tools*.....	\$8,300,879	\$6,007,882
Machinists' tools*.....	\$43,655,553	\$30,082,588
All other*.....	\$55,362,785	\$27,899,664
Horsepower .....	75,446	†

\*These items represent the total values of products reported by the establishments engaged primarily in the manufacture of the specified classes of tools. They do not, therefore, represent exactly the values of the several classes of tools, for the reason that some of the establishments manufactured more than one class of products.

†Not reported in 1921.



# The South Must Learn That Milk Is Meat and Drink and Medicine.

By CRADDOCK GOINS, Milwaukee.

Whether people drink milk because they like it or because they regard it as a healthful food was one of the important points involved in a recent survey made in Philadelphia in co-operation with the United States Department of Agriculture. It is noted in the report that most of the 400 families questioned said they drank milk because they "liked" it.

It is interesting to consider what these folks meant when they said they "like" milk. If milk were drunk simply because of its appeal to the palate it is hardly probable that consumption would amount to one-third what it is. One enjoys milk with a cereal; it tastes good. Creamed dishes are very appetizing. Some persons find it hard to express themselves, and no doubt many of those in the 400 families who said they were drinking milk because they "liked" it were not referring to milk's appeal to the palate.

One must understand, of course, that most of the dairy products are consumed by the so-called "working people" of the land. It is one of the odd little inconsistencies of life that the very wealthy people, who probably need dairy products as much as any other element, consume a very small amount. One may recall that before prohibition was adopted the most of the hard beverages were drunk by men who did hard manual labor. It seems that men who expended great physical energy had a deeper craving for hard beverages. There is little doubt that most of the liquor consumed today is consumed by the wealthy people. Why? Because it is hard to get, and people who have money like to buy that which is difficult to procure. This line of thought is not designed to show that prohibition has had any effect upon milk consumption—on that point the writer does not care to express an opinion.

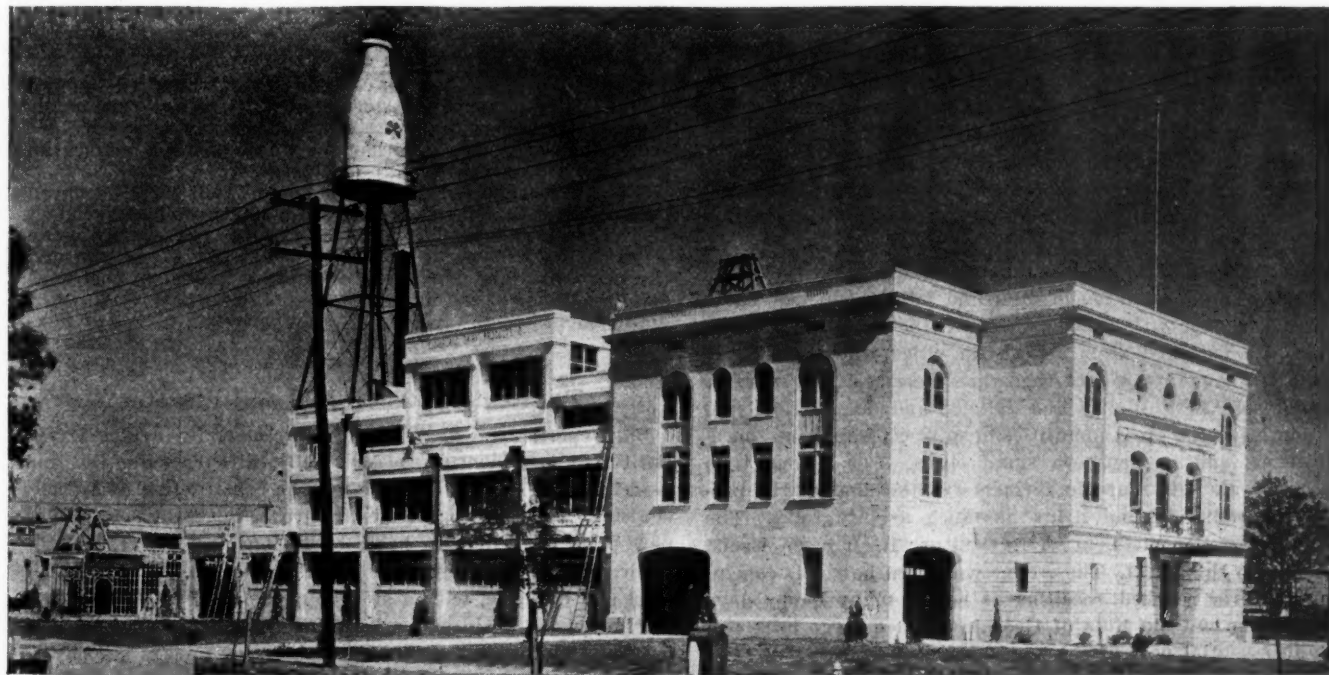
But everyone does know that milk is a food. Yet all do not know that milk is something more of a food than meat and potatoes, etc. Few know that milk is a medicine, and few

know that it is the best tonic imaginable. It is the most natural thing in the world for a man who works to turn to milk. Nothing so fully satisfies the appetite; many persons who are addicted to lavish dinners at home would find they could get on well with much less food on the table simply by drinking a glass of two of milk with each meal.

Probably nothing makes greater demands on a man's strength, both physically and mentally, than night work. The writer has been at his work table very late at night on many occasions when his nerves were in such "jumpy" condition that sleep was absolutely impossible. A trip to the ice box for a glass of milk would immediately result in soothing the nerves and inducing early sleep. Yet milk is not a sedative; it is not a drug—it is the only stimulant that does not cause bad after-effects; on the contrary, it builds up tissue. Unconsciously, that is what many persons mean when they say they "like" milk, although they may not understand that milk has all these qualities.

Several months ago the Metropolitan Life Insurance Company advertised milk for health. This company does not sell milk—it has an investment in human lives. It is to the company's interest that people live a long time. It spent many thousands of dollars in advertising milk for health in about 15 national publications of the highest standing and wide circulation. In the course of the advertisement, the insurance company enumerated all the virtues of milk and added that, after showing all the things that milk will do for the human body, "a milk advertisement sounds like a patent medicine advertisement—but milk will do more for people than the most expensive medicines."

For instance, there was the case of "Red" Barron, a football player at Georgia Institute of Technology. Two years ago he received a very severe injury—a broken jawbone. Physicians set the bone in wire, but they did not know how



MODEL DAIRY PLANT RECENTLY COMPLETED AT NEW ORLEANS FOR THE CLOVERLAND DAIRY PRODUCTS CO. AT A TOTAL COST OF APPROXIMATELY \$1,000,000.

he could be properly fed to hold up his strength so he could continue playing football. But, he did continue playing. He played for six weeks with a broken jawbone. The only nourishment he received was milk, administered through a straw. Milk did that for him. It held up his strength. Nothing else under the sun would have done the same thing.

It has been found that in schools where a milk program has been adopted the youngsters have improved in health and in mental activities. No less an authority than Dr. E. V. McCollum believes that a study of the human race reveals that people who drink more milk are ahead of those who make comparatively little use of it. He says that people who have used milk and its products liberally are people who have achieved big things, who have become large, strong and vigorous, who have reduced their infant mortality, who have the best trades in the world, and an appreciation for art, literature and music, and are progressive in science and in every activity of the human intellect.

Milk consumption is increasing throughout the country because of better methods and more sanitary equipment. The per capita consumption of milk in the United States has increased from .6 of a pint daily a decade ago to 1.16 pints last year. In 1923 the people used 52 gallons of milk each, 50 gallons in 1922 and only 49 in 1921. But they still have a long way to go when one reflects that the per capita consumption of Sweden is 69 gallons a year and that of Denmark is 68 gallons.

In line with the "better methods and more sanitary equipment" mentioned, the South has one or two model dairies, as, for instance, the Cloverland Dairy Products Company of New Orleans, one of the most beautiful dairy plants in the land; the great Sunshine Creamery, Miami, Fla., and the Western Maryland Dairy Company in Baltimore. The Cloverland plant represents an investment of \$1,000,000, the Western Maryland Dairy even more and the Sunshine a great sum, also.

It may be that persons who have most earnestly advocated greater commercial dairying in the South as a means of stabilizing farm and industrial conditions have not laid sufficient stress upon the human side of the matter. Statistics show the South is a healthful country, rich in wholesome food products. But many in the South who are blessed with what one is pleased to call "good health" probably do not know that good health is not comparable with dairy health. The dairy cow long has been an institution in the South, but for the most part has been more or less a family animal. Check up on the list of Southerners who have made their mark and one will find many of them who like to go back to the days when, as boys, they spent hours picking up chips and "minding the gap," at meal times drinking plenty of milk and eating plenty of butter.

Department of Agriculture statistics indicate that the South is lagging in consumption of milk and milk products. These figures are open to suspicion, because the department's statistics are gathered from reports in cities where there are milk-bottling plants, where there are records of the amount of milk sold as to quarts and gallons, and do not take into consideration the great quantities of milk consumed on Southern farms and in Southern small cities. For a long time there was an idea that the farmers of the country, who produce the milk, did not drink as much as city folks. The United States Department of Agriculture itself often issued bulletins to this effect. The writer wondered how this conclusion was ever reached, recalling as he did many happy days down in the red old hills of Georgia when a large milk can was an essential part of the household goods. Just this year the department unearthed evidence that it was mistaken; that rural sections are consuming more milk than city groups.

It probably is due to the age-old custom of the family cow

that the South is slow in taking to the dairy plants. Probably there is some prejudice against factory butter. At any rate, the South pays many, many millions of dollars annually for butter made in creameries far away in Eastern and Western states. The excellent dairy-manufacturing equipment offered today assures factory dairy products as the most safe and wholesome possible. There is no doubt that the dairy plants will thrive in the South as more high-producing dairy animals give greater source of supply.

### The Achievements of Southern Agricultural Colleges.

Royersford, Pa., December 29.

*Editor Manufacturers Record:*

I am taking advantage of the invitation in your letter, received with copy of "The South's Development," to express my views of the work and the ground it covers. My work of engineering and sales work has been entirely with the higher educational institutions of the South. For several years I was located in Texas, and recently in Georgia.

A year ago I was in the MANUFACTURERS RECORD office and mentioned the fact that not enough importance or credit is being given to Southern educators. For example, in your articles on the citrus fruit development no mention is given of the research and study given this industry by the agricultural colleges—the elimination of diseases of this fruit, like cancer; the importing of bacteria to fight it, etc. The work carried on along these lines is responsible for the industry being profitable. The cotton industry owes considerable to these same institutions for the research in fighting the boll weevil, and the development of poisons that make it safe to put in a field and be sure of a reasonable return.

The research carried on by the agricultural colleges at Athens, Ga.; Gainesville, Fla.; Starkville, Miss., amounts to the work of a physician and his relation to the family. These educational institutions have looked after the ills and helped to remove handicaps of all agricultural branches in the South. The development of these colleges is a history of its own. In 1907 the University of Florida was composed of two buildings; today they have nineteen large buildings, or nearly the completed program of what in 1907 was a hundred years' development.

The research does not stop with the plants, fruits and soils; there is continually going on the analysis of the products and the uses to which they can be put in everyday use. For example, here there have been several hundred by-products of the sweet potato developed. There are few of the large industries of the South which do not in some way owe their success to the fact that the development of education has kept a step ahead of the industry.

The work, "The South's Development," will serve as an encyclopedia to the manufacturer, the historian and the student. It has covered a vast amount of ground and clearly represents the growth of the South. I would like to see you give the relationship of education to the development of the South and show some of the unlimited possibilities that await future development.

FRANK L. HALL.

### To Build \$500,000 Mill and Elevator.

Shreveport, La.—Plans have been made by Frank Davis, the former president of the Marshall Mill & Elevator Co., and associates, of Marshall, Texas, for the construction of a \$500,000 mill and elevator at Cedar Grove, near this city. The new plant, which is to begin operations by May 1, will be known as the Shreveport Mill & Elevator Co. It will be of steel and concrete, with a storage capacity of 500,000 to 600,000 bushels of grain and a handling capacity of 1000 bushels every 12 minutes and a loading capacity of 75 cars per day.

A chop and feed mill of large capacity will be installed, and storage-house with a capacity of 150 carloads of hay or similar feed will be erected.



## "The Next Quarter of a Century Belongs to the South."

**B. N. DUKE**, vice-president of the American Tobacco Company, in a letter to the editor of the **MANUFACTURERS RECORD**, referring to "The South's Development," says:

"I think it is a most wonderful publication. I want you to know something of my high appreciation of the wonderful work you have accomplished for the South through the **MANUFACTURERS RECORD**, and I think you can best get an idea of this by reading the enclosed copy of a letter I have addressed to one of my kinspeople in Missouri. I know your work and accomplishment for the South is highly appreciated by a great host of leading Southern people."

The extract from the letter to which Mr. Duke refers is so extremely laudatory of the **MANUFACTURERS RECORD** and of its editor that modesty forbids us using it in full; we can pick only a few lines. In a letter to the relative to which he refers Mr. Duke said:

"I note from your letters that you have been assigned to take up the study of the cotton industry in the South, and the progress of that industry from the time when the spinning and weaving were done by hand in the homes up to the present time. That is quite an interesting subject."

"I am sending you a copy of 'The South's Development,' which treats of the progress made in the South in the last 50 years along all lines, especially emphasizing the work that has been accomplished along industrial lines. The editor of this work has been publisher of the **MANUFACTURERS RECORD**, which has especially covered the field of Southern possibilities and progress. \* \* \* The editor of the **MANUFACTURERS RECORD** has done more for the advancement of Southern progress and upbuilding than any other dozen agencies that I know of. The **MANUFACTURERS RECORD** is, in a way, my Bible; I read it weekly, religiously. No matter whether he writes on educational matters, the subject of protection to the industries of this country, the proposed Child Labor Amendment to the Federal Constitution, as opposed to the right of states to regulate the matter, as well as many other subjects vital to the South, he voices my sentiment. I heartily approve every stand he has taken on all these subjects."

The justification for the publication of various commendations, such as this that has come from Mr. Duke, and many hundreds of others, is that they are given to our readers wholly for the purpose of quickening the thought of the South about its own possibilities. These letters are not published from any egotistical point of view. Viewed strictly from that standpoint, we would far rather omit them. But there is something in them much more important than merely the personal commendation or the enthusiastic praise given to the work of the **MANUFACTURERS RECORD**. All far-seeing men in the South are realizing that the South needs to be "sold" to the people of the South. They need to have a real, downright, definite realization of its resources and opportunities. They need to be imbued with the tremendous, untiring spirit of enthusiasm of the Florida people which is making Florida what it is, and of the same spirit that is shown in California, which has worked the miracles wrought in that state.

Every Southern state has its own unique advantages. Some have one thing, and some another, but there is not a state in the South that has not, and we believe we can say this advisedly, taking all things into consideration, been more marvelously blessed than any other state in the Union outside the South, with possibly one or two exceptions. Taken as a whole, there is nothing else on the face of the earth that matches the South in a combination of advantages.

A few days ago, Darwin Kingsley, president of the New York Life Insurance Company, in an address in Daytona, Fla., in discussing the subject of climate, emphasized the pre-eminent importance of climate in world affairs. "A man," said he, "may possibly live a month without food. It has been done. He may live some days without water. But with-

out climate—or air—his death would be almost instantaneous."

"Climate," said he, "is one of the greatest assets which it is possible for any state or section to have. Its value cannot be overestimated."

In this position Mr. Kingsley was placing a right estimate upon the value of climate. He was specifically, in his address, referring to Florida, but every state in the South has climatic advantages so far superior to those of other sections of this country that in this alone they have an asset of immeasurable importance.

But these states also have agricultural potentialities superior to those of any other part of the country, except perhaps California. They have coal and iron and petroleum and gas and timber and water-powers, granites, marbles, clays and a thousand and one other things which are not found to the same extent in the same juxtaposition and the same ease of development elsewhere in this or any other country. And yet the Southern people as a whole have not fully appreciated these advantages. They have let their children go out to other sections, obsessed with the idea that they would thus have greater opportunities.

If all the boys and girls who had graduated and who have left the South during the last 25 years were back in the South, taking part in its development, this section would make an advance in the next 10 or 15 years beyond estimate. It can still make an advance in the next ten years far greater than that of the last 20 or 25 years.

We recall with interest the statement made in the **MANUFACTURERS RECORD** some years ago by Henry M. Flagler, one of the most far-visioned business men that this country has ever produced, in which he said "the next quarter of a century, in material development, belongs to the South." That thought has been emphasized by many others. The people of the country at large are beginning to realize it fully, but the people of the South need to be quickened into a newer and deeper conviction as to the reality of these facts. Every school teacher, every college professor, every business man in the South should keep everlastingly driving these truths into the hearts and minds of the people of the South, and especially of the rising generation.

Bearing directly on this point is a letter from T. H. Johnston, Sr., president of the American Lumber & Export Co., of Birmingham, Ala. Under date of December 31, Mr. Johnston wrote:

"When 'The South's Development' came out, I kept it on my desk at the office until Christmas Eve, and then carried it home. My family consists of my mother, 81; my wife, four children and myself—the youngest child a girl of 10, two boys in between, and a girl of 18. The children had the usual array and assortment of gifts and toys, but during Christmas Day I think that more time was spent by the entire family in reading aloud portions and extracts from your special edition than was given to any other one thing, and I have not in years seen anything come into the home that has given more general pleasure than the information contained in that edition. It is hard to tell which member of the family was most interested in it; though, of course, all were not equally interested in the same article. I congratulate you most sincerely upon what you have been able to accomplish."

Samuel R. Boggs, president and treasurer of the Model Mills Company of Philadelphia, writing a somewhat similar statement, said:

"I read with a great deal of interest many editorials in your paper. I wish to congratulate and also compliment you on the high standard of character of these editorials. Your editorial on Thanksgiving Day was splendid. The editorial on Christmas Day is most excellent. It is real refreshing to note that those who, through the printed page, influence public opinion have such a vision of the real, true things of

life, as your editorials indicate. This is splendid work. In the days in which we live we do not need more light or education; we need more character. We have plenty of preaching; what we need is more practicing. In this office 'we believe that business principles should conform to the teachings of Christ,' and we are glad your editorials confirm this thought."

We trust that our Southern people will become more and more fully imbued with a definite, positive realization of the South's advantages; teach this to their children, and see that their schools emphasize all that the South has done, all that it has of resources, and thus enthuse them to do their part in further upbuilding, material and spiritual.

We have been so literally swamped and overwhelmed with letters of commendation of "The South's Development" that we find it impossible to continue their publication. We regret that we cannot give to our readers every one of these letters, for they all have some word of encouragement for the South and for Southern development, but with hundreds on hand in addition to those we have published, we feel that it is impossible to use any more of them and, therefore, this week ends their publication except from time to time we may extract from some of them for editorial use a line or two of particular importance to the country.

Again we would express our profound appreciation of the almost boundless enthusiasm which the publication of "The South's Development" has brought forth. It has, as we have previously stated, created an intense desire on our part to carry forward with greater vigor than ever before the work which for forty-two years this paper has been trying to do in behalf of the South.

#### **A Wealth of Information About the South.**

#### **SYNTHETIC ORGANIC CHEMICAL MANUFACTURERS' ASSOCIATION OF THE UNITED STATES.**

New York, N. Y., December 24.

#### *Editor Manufacturers Record:*

I want to congratulate you most heartily on the remarkable compilation you have just published entitled, "The South's Development."

The MANUFACTURERS RECORD has surpassed itself in the style and make-up of this volume so far as the printer's art is concerned, but the most important thing is, as I find in looking through the pages, you have put together here a wealth of information about the South which makes of this work a real book of reference.

At the same time the facts recorded in that book prove inspiring to all who love and believe in the future of that section of our country.

CHAS. H. HERTY, President.

#### **Josephus Daniels Pays High Tribute to It.**

#### **THE NEWS AND OBSERVER.**

Raleigh, N. C., December 24.

#### *Editor Manufacturers Record:*

Please accept my congratulations on the magnificent and stupendous undertaking of the MANUFACTURERS RECORD in giving the most comprehensive history of Southern development and resources that has appeared. It is a great work and does you credit and the entire South great good.

JOSEPHUS DANIELS.

F. R. Davis, Publicity Department, General Electric Company, Schenectady, N. Y.:

"The contents of the special section of your December 11 issue devoted to the South's development is all that you said it would be and all that the editor claims it to be. The chief impression it makes on us here is an illustration of the value of the MANUFACTURERS RECORD as an advertising medium for blanketing industrial activities of the South."

H. T. Poe, Jr., President, Poe Construction Co., Inc., Greenville, S. C.:

"We have our copy of 'The South's Development,' and find that it is the best encyclopedia available on economic and industrial conditions in the South."

#### **Vice-President Brand of the Atlantic Coast Line's Tribute.**

#### **ATLANTIC COAST LINE RAILROAD COMPANY.**

Wilmington, N. C., December 30.

#### *Editor Manufacturers Record:*

"The South's Development" is the most complete encyclopedia of the South I have ever seen. I think it now particularly timely, when the whole South seems to be moving forward in such a splendid manner. I feel sure the edition will be of great benefit to the South; in fact, to the entire country.

Wishing the MANUFACTURERS RECORD the continued success it so justly deserves, I am,

R. A. BRAND, Vice-President.

#### **A Well Satisfied Western Advertiser.**

#### **THE JAMES LEFFEL & COMPANY.**

Springfield, Ohio, December 22.

#### *Editor Manufacturers Record:*

Permit us to congratulate you upon the wonderful edition of "The South's Development," a copy of which we received a few days ago. The edition is beautifully made up throughout, wonderfully interesting reading matter; the quality of paper and workmanship are most excellent. We are much pleased that we have placed our one-half page advertisement in it. We note our ad on page 78, which is gotten up in an artistic and attractive manner—in other words, just right—and we feel quite satisfied with the same.

A. F. SPARKS, President and General Manager.

#### **How a Pennsylvania Manufacturer Views It.**

#### **LANDIS MACHINE COMPANY.**

Waynesboro, Pa., December 23.

#### *Editor Manufacturers Record:*

We feel that "The South's Development" is certainly a great credit to you, and the people of the South should surely be appreciative of what you are doing for them.

The writer has taken some time to go through "The South's Development" and does not know that he has ever seen an edition of any paper that was so far-reaching and so well-edited, covering the principal interests of so large a section of the country.

J. G. BENEDICT, General Manager.

W. P. Davis, General Manager, Knoxville Iron Company, Knoxville, Tenn.:

"I think 'The South's Development' one of the most wonderful publications relating to the South that has ever been gotten out. It certainly gives a grand exposition of what the South really is today. Its resources are simply wonderful; the world may learn from your publication more about these wonders than it has ever had an opportunity to learn before.

"The good work that has been done by you through your great paper entitles you to great credit, for you have been the outstanding feature in advertising the South's resources, development, et cetera."

Reginald Dykers, Fifth Vice-President and General Manager of the American Sugar Cane League, New Orleans, La.:

"My copy of 'The South's Development' reached me and I can only say that it not only exceeds my expectations but exceeds anything I ever saw in that line. I can well believe that you have all had your hands full with it, and you have my heartiest congratulations on the splendid outcome of your efforts."

H. C. Atkins, President, E. C. Atkins & Co., Inc., Indianapolis, Ind.:

"'The South's Development' is a massive, comprehensive piece of work. You have done something for the South that is of real value; how much value, it would be hard to estimate."

A. M. Schulz, Director of Advertising, Seth Seiders, Inc., Chicago, Ill.:

"Accept our congratulations on this very fine volume, which we consider a very valuable addition to our library."



## A Birmingham Concern Spreading the News of the South.

JEMISON AND COMPANY.

Birmingham, Ala., December 30.

### Editor Manufacturers Record:

"The South's Development" will be an addition to any library as a valuable work of reference, and it is, indeed, a very constructive service to the South, and likewise to the nation, in that it presents in one volume historical and statistical data which reflects in a most impressive manner the past and present, and particularly the great future in store for the South.

The development of its vast resources and the opportunities of the South are already attracting the attention of the nation, and I feel sure that "The South's Development" will make many new converts to this great section of our country.

I am enclosing an order for a number of copies to be sent to friends, who I believe will appreciate this valuable addition to their library.

ROBT. JEMISON, JR., President.

## Will Greatly Aid Southern Development.

GEORGIA-CAROLINA BRICK COMPANY.

Augusta, Ga., December 15.

### Editor Manufacturers Record:

"The South's Development" is a marvelous presentation of the subject, and no doubt will contribute greatly to the further development of this section.

The fact that most of the articles were prepared by men of national repute, many of them unbiased by any particular interest in the South, seems particularly fortunate.

You are entitled and I believe will receive cordial appreciation from all of our people for this wonderful contribution to the cause of the development of the whole country.

HOWARD H. STAFFORD, President.

R. A. Mitchell, Vice-President, Alabama Power Company, Birmingham:

"I feel that notwithstanding the RECORD has been of immeasurable advantage to the South, nothing has ever come out of your office which will do the good I am sure this publication will. It is a great pity that every library in the United States and every chamber of commerce has not a copy of this book in their files."

J. S. Schofield's Sons Co., William P. Fleming, Manager, Tampa, Fla.:

"The South's Development" is a credit both to the South and to its publishers, but does not overestimate in any way the section or its possibilities. We are proud to be a small wheel in this vast mechanism that is operating for the benefit of mankind."

Norman Call, Vice-President, Richmond, Fredericksburg & Potomac Railroad Company, Richmond, Va.:

"The South's Development" must have the most potent and widespread influence in bringing to the attention of our country generally the peculiar advantages and possibilities of the South."

J. M. Mallory, General Industrial Agent, Central of Georgia Railway Company, Savannah, Ga.:

"Every progressive Southerner and others interested in the South will find in 'The South's Development' much to gratify their pride for the accomplishments of the past few years and inspiration for still bigger things in the future."

E. E. Martin, for Walton H. Marshall, Manager, The Vanderbilt Hotel, New York:

"I congratulate you on your publication, 'The South's Development.' This is a splendid exposition of the South and should result in a great deal of good."

Peter O. Knight, Attorney, Tampa, Fla.

"In my opinion, you have done a one hundred per cent job. My vocabulary is too limited, entirely, to adequately express just how much good I think you have done for the South."

John D. Baker, President, Baker & Holmes Company, Jacksonville, Fla.

"The South's Development" is a remarkable edition, and one that will do the South untold good."

A. W. Esleeck, President, Esleeck Manufacturing Company, Turner Falls, Mass.:

"The South's Development" is a work that needs to be preserved, and I shall have the copy sent me put into a substantial binder."

## As Seen in New England.

ARTHUR D. LITTLE, INC.

Cambridge, Mass., December 23.

### Editor Manufacturers Record:

"The South's Development" is a truly remarkable publication, worthy in every way of the anniversary which it celebrates and the South it describes. Though you must be overwhelmed with congratulations, I trust you will let me add my own.

A. D. LITTLE.

## Of Inestimable Value.

THE ATLANTA JOINT STOCK LAND BANK.

Atlanta, Ga., December 23.

### Editor Manufacturers Record:

Accept my hearty congratulations on the splendid "South's Development." I join with many other Southern friends in thanking you for the interest which you are taking in this section and the splendid way in which you have presented to the world a true picture of the possibilities of the South. The value of your work is inestimable.

A. B. SIMS, President.

## The Wonders of the South Portrayed.

BRIMER & ENGLAND.

Contractors and Builders.

Knoxville, Tenn., December 20.

### Editor Manufacturers Record:

I have just finished an attentive examination of your most valuable book "The South's Development," and I am sure after the reading public has examined and studied its contents they will know and appreciate, more than ever before, the wonders of this section of the country. The South is greatly indebted to you for presenting in such an attractive form the amount of useful information you have collected within its pages.

B. R. ENGLAND.

## "Eminently Worth While."

[From Birmingham Age-Herald.]

The MANUFACTURERS RECORD has achieved a publication eminently worth while in its just-issued volume, "The South's Development."

Although it is a compendium of facts, its attractive pages will lead one to read on and on until he has finished it. The very story of the South's material endowment is a thrilling one, no less than the history of its development, now proceeding at a constantly accelerating pace. In order that Southern people may properly tell others of the South and the opportunity it offers for enterprise and capital, it is essential that Southern people should first inform themselves. Doubtless there is no other single volume in existence from which that knowledge may be obtained so accurately, succinctly and completely as from this one. It should inspire the people of this well-favored section to greater achievement, and should form the basis of an irresistible invitation to industry and capital elsewhere to come to the South for a share in this exceptional opportunity. Southward the course of empire takes its way. There can be no stopping it.

In sending this volume complimentary to its subscribers the RECORD has given them an article of value far greater than the price of a year's subscription. The real value of such a work lies in the use that people make of it. The growing conception of Southern people as to this new destiny of wealth and progress is earnest in advance that they will make good use of it.

### "Marvelously Comprehensive."

[From The Cotton Oil Press.]

With all respect to the daily newspapers, however, there is one newspaper, a weekly, that has probably done more to advance the great development of the South than all other press agencies combined. That is the *Manufacturers Record*. Vigorously, fearlessly and continuously for forty years, it has kept at its self-appointed task of opening the world's eyes to the potential wealth of the South, and encouraging, and at times even driving, the Southern people to business and industrial activity and expansion.

In a wonderful supplement called "The South's Development," issued with its regular edition of December 11, 1924, the *Record* tells the story. No Southern library or office should be without that epitome of Southern data and information. It is marvelously comprehensive. While it is gratifying to the people of the Southern states to read the record of progress, with what satisfaction it must be viewed by Editor Richard Edmonds, whose indomitable spirit and magic pen are so largely responsible for the substantial results that are graphically set forth in that super-supplement's 670 pages!

### "An Encyclopedia of Information."

[From The Denison (Tex.) Daily Herald.]

"The South's Development" is the title of a 670-page special edition of the *MANUFACTURERS RECORD*, recently issued. The volume is, perhaps, the most comprehensive review of Southern activities in all their varied phases that has ever been issued in magazine form. It is an encyclopedia of information, containing special articles dealing with every phase of Southern commerce and industry, together with equally valuable articles concerning other features of Southern life.

### "Great Record of Achievements."

[From The Conway (Ark.) Times.]

The *MANUFACTURERS RECORD* has just issued a 670-page book on the development of the South for the past fifty years. It is a great record of achievements that should be in every library and home in the South.

### Over 45 Per Cent of Country's Ice Plants in South.

According to the census of manufactures, 1923, establishments engaged primarily in the manufacture of ice reported products valued at \$164,662,187, an increase of 3.6 per cent as compared with 1921, the last preceding census year.

In addition, ice was manufactured to some extent by establishments engaged primarily in other industries. The value of ice thus produced outside the industry proper in 1921 was \$9,461,424, an amount equal to 6 per cent of the total value of products reported for the ice-manufacturing industry.

Of the 3097 establishments reporting for 1923, 2458, or nearly 80 per cent, were located in 20 States as follows: 275 in Texas, 222 in Pennsylvania, 190 in Illinois, 159 in Ohio, 156 in New York, 142 in California, 129 in Missouri, 121 in Kansas, 110 in Oklahoma, 107 in Indiana, 103 in Florida, 101 each in Kentucky and Virginia, 90 in New Jersey, 89 in Tennessee, 87 in Louisiana, 76 in North Carolina, 74 in Alabama, and 63 each in Maryland and Mississippi. Based on incomplete returns, the South has about 46 per cent of the country's ice plants.

#### ICE MANUFACTURING.

	Preliminary 1923	Final 1921
Number of establishments.....	3,097	2,715
Wage earners (average number).....	26,851	24,066
Wages .....	\$35,039,585	\$32,630,180
Products, total value.....	\$164,662,187	\$158,889,173
Ice—		
Tons (2000 pounds).....	34,379,683	29,667,664
Value .....	\$158,592,744	\$152,404,044
Can ice—		
Tons .....	33,520,717	28,403,436
Value .....	\$154,498,916	\$146,305,291
Plate ice—		
Tons .....	858,966	1,264,228
Value .....	\$4,093,828	\$6,198,753
Cold-storage receipts .....	\$4,720,873	\$4,494,093
All other products, value.....	\$1,848,570	\$1,991,036
Machines—		
Number .....	6,510	4,531
Capacity, tons (per day of 24 hours) .....	368,085	230,674

### Taking a Look at the South.

[From Dallas Morning News.]

The *MANUFACTURERS RECORD* of Baltimore has issued a compendium on the development of the South. It is an example of editorial and managerial industry which surpasses former achievements of even its own staff. The edition itself is so large and so inclusive as to make impossible even a summary of it which would fit comfortably into an hour's reading. The value of it to any one who desires a general knowledge of the importance of the South in the economic life of the nation must be considerable.

### "Unbelievable Wealth of Information."

[From The Monroe (La.) News Star.]

For the man or woman who wishes to have an accurate understanding of the South as it is today, "The South's Development," published by the *MANUFACTURERS RECORD*, provides an almost unbelievable wealth of information touching on every phase of the progress which has been made by Dixie during the past half century. The volume is one which attracts immediate attention and undoubtedly will serve as one of the greatest advertising assets that the South has ever known.

### The "Solid South" Defined.

[From The Memphis Commercial Appeal.]

As a supplement to its issue of December 11, the *MANUFACTURERS RECORD*, published at Baltimore, Md., has produced a 666-page volume devoted to the development of the South, industrially and commercially. This volume comes forth in burnished gold paper binding with the avowed purpose of re-defining the term "Solid South" as an economically solid section of the United States.

All fields of industry and commerce are treated. Many special articles, historical, statistical and prophetic in nature, fill the compilation. The South is found to have had a difficult, though glorious, past; to have a prosperous today, with glorious accomplishments ahead.

### Will Build \$2,500,000 Office Building at Miami.

Miami, Fla.—The erection of a \$2,500,000 office building here will be undertaken by a company of Miami and Northern capitalists, according to a recent announcement. The structure will be located on a site having a frontage of 100 feet on N. E. 1st street, 100 feet on N. E. 2d street, with a depth from north to south of 300 feet. The 1st street frontage will be 12 stories, that on 2d street will be six. The building will be of steel and concrete and will be served by four high-speed elevators.

As an adjunct to the office building, there will be an automobile hotel building, 150 by 50 feet, six stories. This will be connected with arcades and offices and will be used exclusively by tenants of the office building.

Plans have been prepared by Robertson & Patterson, and general contract was awarded to P. J. Davis Construction Co., both of Miami.

### Production of Bleaching Compounds.

The Department of Commerce announces that, according to the data collected at the biennial census of manufactures, 1923, bleaching compounds to the value of \$15,671,953 were produced for sale by establishments engaged primarily in the manufacture of chemicals, an increase of 12.7 per cent, as compared with \$13,900,353 in 1921, the last preceding census year, and of 26.5 per cent, as compared with \$12,392,806 in 1919. The leading bleaching compounds, in order of value, are calcium hypochlorite, with a production of 146,641 tons in 1923, valued at \$5,150,885; chlorine, with a production (not including amounts made and consumed in the same establishments) of 73,736,000 pounds, valued at \$2,751,172, and hydrogen peroxide, 23,761,000 pounds, with a value of \$2,023,374.



## Improvements Will Double Capacity of Tennessee Eastman Plant— Manufacturing Chemicals from Hardwood.

By P. S. WILCOX, Kingsport, Tenn.

Ground will be broken this month for an addition to the Kingsport plant of the Tennessee Eastman Corporation—a subsidiary of the Eastman Kodak Company—engaged in the production of chemicals from hardwoods, such as pure methanol, acetone and other solvents used by the parent company. The improvements will consist of a group of buildings to be erected north of the present structures on a site of 375 acres. Wood carbonizing equipment will be installed in the new buildings, and additional machinery will be placed in the present alcohol and acetate of lime units, there being sufficient floor space to care for this installation.

The improvements outlined will increase the capacity of the plant more than 50 per cent, making it possible to carbonize from 175 to 200 tons of wood every 24 hours, producing suf-

processes, and for many other industrial applications, and also poultry and stock feed. The finer charcoal is manufactured into briquettes, which are consumed by the principal railroads in the United States in the broilers of dining cars, and in heater stoves for the protection of perishable fruits and vegetables during the winter months.

As far as it is commercially feasible, all by-products are worked up into finished goods. For example, from the wood oils rich in creosote, pure creosote and guaiacol are manufactured; from the tar, various grades of hardwood pitch are manufactured, suitable for transformer insulation and for use by the rubber industry. The intermediate tar products are worked up into wood-preserving oils. Equipment has been installed to manufacture creosoted hardwood blocks for fac-



PRESENT PLANT OF TENNESSEE EASTMAN CORPORATION AT KINGSPORT—CAPACITY TO BE DOUBLED.

ficient wood alcohol and acetone to fill the needs of the Eastman Kodak Company. In addition ketones, creosote oils and methyl acetone are produced.

Extensive timber and wood properties have been acquired, the most important of which are reached by a private railroad right of way 27 miles long. Some of the properties are being operated, and others are held in reserve for the future. All large timber is manufactured into lumber. Selected material from the remaining logs and heavy slabs is sent to the wood-carbonizing plant. A considerable supply of wood is secured from the owners of small wood lots.

This plant is unique among wood-distillation plants in that it produces only finished products, which are ready for consumption without further manufacture or refining. The charcoal, which is thoroughly burned, free from foreign matter, and very low in volatile, is manufactured into granular sizes for use by various industries for case-hardening, heat-treating

tory or warehouse floors. The blocks are obtained from the better grade of wood from the sawmill.

Sufficient retorts and auxiliaries are now in operation to carbonize 125 to 150 cords of wood per day.

The plant is further equipped with retorts for converting acetate of lime into acetone, and a modern refinery for making pure grades of methanol, acetone and various intermediate products.

The corporation has built on its property a group of very attractive houses for employees, which is known as Edgewood Village.

The 10-year-old city of Kingsport, in which the plant is located, is a thriving community of over 10,000 population. Other industries include a cement plant, brick plant, soda pulp and paper plant, a book-printing plant, extract, tannery and leather-belt plant, glass factory, cotton mill and hosiery mill.

### Organic Chemical Compounds.

The total production, for sale, of organic compounds not covered by special chemical groups and not including alkalis, coal-tar derivatives and synthetic plastics, as reported by establishments engaged primarily in the manufacture of chemicals, was valued at \$75,914,191 in 1923. This total represents an increase of 70 per cent, as compared with \$44,661,100 in 1921, and of 5.2 per cent, as compared with \$72,141,542 in 1919, reports the Department of Commerce.

The production, for sale, of the leading compounds in this miscellaneous group of organic chemicals, as reported for 1923, was as follows (the items being listed in the order of their value): Refined glycerin, 74,104,854 pounds, valued at

\$12,214,012; formaldehyde, 20,213,873 pounds, valued at \$2,604,061; ethyl acetate, 2,529,788 gallons, valued at \$2,192,989; acetone, 8,742,805 pounds, valued at \$1,864,986; carbon bisulphide 25,200,967 pounds, valued at \$1,337,024, and vanillin, 227,997 pounds, valued at \$1,326,935.

### Tampa to Vote on \$1,000,000 Hospital Bonds.

Tampa, Fla.—On March 17 this city will vote on a \$1,000,000 bond issue for the construction of the proposed 500-bed hospital here. This sum will supplement \$250,000 already voted. Plans for the structure are being prepared by M. Leo Elliott of Tampa, with Stevens & Lee of Boston, Mass., as consulting architects.

## Stabilizing Calcium Arsenate by Loans Through Federal Reserve Banks.

By C. A. WHITTLE, Atlanta, Ga.

In the November 13 issue of the MANUFACTURERS RECORD a suggestion was made that if calcium arsenate in storage were recognized by the Federal Reserve banks as acceptable security for negotiable notes, a serious problem in the manufacture and distribution of calcium arsenate would be largely solved.

Since that time United States Senator George of Georgia has had the proposition up with the directorate of the Federal Reserve banks and has received a ruling which permits stored calcium arsenate to become the basis of negotiable paper, but the ruling says that the actual acceptance of such paper is reserved to each local governor of Federal Reserve banks.

With this ruling from Director Crissinger it is made clear that the policy is permissible, and it now remains for those interested in calcium-arsenate manufacture to take this endorsement of the head of the Federal Reserve system and get each district governor to make it effective. If this is successfully accomplished it seems that an important step will have been taken to save the manufacture of calcium arsenate from an almost complete collapse. The primary difficulties in its manufacture and distribution for control of the cotton boll weevil is the uncertainty of the demand due to the irregularity of boll-weevil infestation, and, also, to the refusal of the cotton farmer to buy calcium arsenate until there is actual need of it in the field. To manufacture enough to meet the maximum possible requirements in the face of the records of uncertainty of weevil infestation is more than can be fairly expected, and to induce the manufacture of a supply to meet emergencies needs special encouragement.

The production of calcium arsenate is expensive. Any considerable amount of it represents a large outlay of capital, and when the weevils are not bad, as in 1924, an enormous amount of capital is rendered non-productive by being locked up for a year or more in calcium arsenate in storage. If the manufacturer can get the use of some of this capital he will be able to continue to manufacture against possible future demand, but if his capital must remain inoperative the result will be that he will either not continue to produce, or if unable to await returns from his goods he will go bankrupt.

If each Federal Reserve bank will discount paper having as its security stored calcium arsenate, then will the manufacturer be able and more willing to produce in spite of an uncertain demand.

In view of the fact that the cotton farmer will not buy till he feels the need, it would seem advisable that a supply of calcium arsenate be easily accessible to cotton farmers. Therefore, the calcium arsenate offered as security should be stored in the cotton belt. The material should, of course, be of the kind and quality that conform to Government specifications.

Whether the obligation rests on the manufacturer or dealer to store calcium arsenate is not to be discussed here; the primary responsibility for seeing that the material becomes the object of negotiable paper belongs to the manufacturer. Probably more dealers would lay in a supply if they could raise the money on it.

### Richmond Architects Plan Important Buildings.

Richmond, Va.—Plans and specifications for a number of important buildings in Richmond and at other points have been prepared in the office of Carneal & Johnston of this city. Structures include a \$250,000 building for the Kayneo Realty Co. and a \$100,000 building for the Juvenile and Detention Home, both of Richmond. The former will be five

stories, of steel and concrete, with glazed terra cotta exterior, sub-bids now being received by John T. Wilson Co., general contractor. The other structure will be three stories and basement, of brick and concrete.

Bids are to be received by February 1 on the \$250,000 war memorial to be erected at the Virginia Polytechnic Institute, Blacksburg. This building will be three stories, to contain a gymnasium, indoor track and swimming pool. Plans are also being prepared for a two-story and basement reinforced concrete building for Garrett & Massie, printers, of this city, the structure to be so designed that additional stories may be added later. Work has begun on a three-story frame hotel of 40 rooms at Tappahannock, Va.

### Census of Shipbuilding, 1923.

The Department of Commerce announces that establishments engaged primarily in ship and boat building, including repair work, reported a combined output valued at \$213,232,381, a decrease of 46.8 per cent as compared with 1921, the last preceding census year. The value of output as reported for the industry does not include the total value of completed vessels (except those which were begun and completed within the year), but only the value of the work done on them during the year. The figures do not include statistics for shipbuilding plants owned and operated by the Federal Government.

Principal items making up the total for 1923 were as follows: Steel vessels of 5 gross tons and over, 289; gross tonnage, 286,182; value of work done during the year, \$35,622,732. Wooden vessels of 5 gross tons and over, 527; gross tonnage, 118,764; value of work done during the year, \$5,475,307. Boats of less than 5 gross tons, 1043; value, \$2,720,799. Amount received for repair work on steel vessels, \$81,319,294; on wooden vessels, \$31,222,139; a total of \$112,541,433, or 52.8 per cent of the aggregate value of all work done during the year.

Of the 570 establishments reporting for 1923, 101 were located in New York, 54 in New Jersey, 49 in California, 39 in Massachusetts, 32 in Washington, 28 in Maryland, 24 in Maine, 22 in Virginia, 20 each in Connecticut and Florida, 19 in Pennsylvania, 18 in Ohio, 16 each in Michigan and Wisconsin, 15 in Oregon, 12 in Louisiana, 10 in Rhode Island and the remaining 75 in 17 other states and the District of Columbia.

#### SHIPBUILDING.

	Preliminary 1923	Final 1921
Number of establishments.....	570	640
Wage earners (average number).....	62,287	106,445
Wages .....	\$90,719,525	\$155,943,490
Cost of materials.....	\$84,557,675	\$169,368,425
Value of products.....	\$213,232,381	\$400,834,105
Horsepower .....	320,000	.....

### 16-Story Bank Building to Cost \$1,500,000.

Jacksonville, Fla.—At a meeting of stockholders of the Barnett National Bank here it was decided to erect the proposed \$1,500,000 building at Laura and Adams streets, for which Mowbray & Uffinger of New York are preparing plans. The structure will be 16 stories, 105 by 105 feet, the bank to use the first floor and basement and the remaining floors devoted to offices.

Bion H. Barnett has been made chairman of the board of directors and W. R. McQuaid elected president of the bank.

### \$300,000 for Dredging Channels in Clearwater Bay.

Belleair, Fla., January 17—[Special.]—In order that Clearwater Bay may be made safe for the passage and anchorage of yachts, the town commissioners have voted \$300,000 for dredging wide channels. Mayor Earle E. Carley is arranging speed and power boat racing programs to attract the country's fastest craft.



## Business Must Stamp Out Waste.

By SETH SEIDERS, President, Seth Seiders, Inc., and Mather & Co., Chicago.

[Copyright, 1924, by Seth Seiders.]

James Denton and Leslie McCormack are neighbors in one of the industrial centers grouped about the foot of Lake Michigan. Denton puts in eight to ten hours a day managing a department in a cement works; McCormack is a pivot man in a steel foundry. One evening, Denton handed McCormack a four-page folder bearing the title, "The Spoilers: A story illustrating the big difference which little things make. Teaching the workers the enormous cost of waste. Where does profit begin? Ask your workers and make them understand the answer." The facts set forth in the folder were a revelation to McCormack. These paragraphs particularly impressed him:

"There is only one sure safeguard against waste—sound management methods by the department head, and a firm determination to wage a fight on waste every minute of the day.

"You can increase the efficiency of your department—can insure steady employment for your workers and yourself, and you can raise the earning power of all concerned—when you stop waste."

American business literally throws away billions of dollars annually, either because it ignores, or does not comprehend, the cost of such human failings as wastefulness, carelessness, mistakes, friction, confusion, misunderstanding, "stalling," lack of teamwork and the like, or does not use effective means to overcome them. And never in our history has there been such crying need of economy as today.

We must help our workers and our pivot men to become economically minded. We must stimulate them to think in terms of penny losses per operation, multiplied by the number of operations per day and multiplied again by the number of working days in a year, to get a clear idea of the tremendous total these leaks pile up. We, likewise, must stimulate them to think in terms of short cuts that would speed up production, reduce costs or enhance quality. In other words, we must induce their minds to run along with ours. On the basis that it is to their own material advantage, we must enlist their co-operation in greater measure than ever before.

One of the largest concerns in the United States engaged in the manufacture of radiators has, through co-operation with its workers, absolutely eliminated one costly source of loss—breakage in the production of shells. In spite of the fact that these shells are made to withstand a pressure of 100 pounds to the square inch, they are only three-eighths of an inch thick. It will readily be seen what a ticklish job it is for a foundry to make them without quite a liberal percentage of breakage. Before this concern found how to enlist its workers in a daily war on waste, shell breakage in the foundry was 7 per cent. Within one year from the inauguration of the economy campaign the 7 per cent had been reduced to zero.

An Ohio shoe company, which, up to a year ago, had not paid any great attention to the waste problem, now gets enough leather out of its scrap to manufacture all its shoe tongues. Now, one shoe tongue costs only about a quarter of a cent. But when you multiply that by the output of the five plants this concern operates, you discover the annual saving on this one item alone.

And whose idea was responsible for this economy? It was a worker who brought it forward some two or three weeks after the company had begun a sustained effort to show its employees the mutual advantage of stopping leaks.

A Kentucky lumber dealer recently began talking teamplay

to his organization. The men had read not more than three of his messages when they came to him in a body and suggested that customers could be served just as well if stock on hand were reduced from \$25,000 to around \$10,000. They had figured it all out, and presented to him a schedule of sizes and kinds that could be reduced. After checking the schedule in the yards, the dealer adopted it substantially as presented. Think of the interest he is saving.

A metropolitan hotel, with the help of its workers, has in one year reduced its breakage of dishes from 20 per cent to 3 per cent. The savings aggregates thousands of dollars annually.

I have yet to find an organization in which workers do not fall to with a will to conserve time, energy and materials when they are shown that:

1. Every dollar of waste—every piece of usable material discarded, every mistake due to carelessness, every job improperly done because the worker did not make sure that he understood instructions, every five minutes of time frittered away, every machine unnecessarily idle for even only a little while—takes just that much away from the firm's potential earnings, thus making a continuance of the present level of wages and steady employment that much more uncertain.

2. Every constructive idea withheld by employees works toward precisely the same end.

Or, to phrase it another way:

Reduction of waste and the contribution of new, practical ideas mean increased profits. Increased profits make possible better wages and steady employment for all concerned.

Bringing any group of workers to look at the matter in this way, and getting their hearty support, month after month, in making the best possible use of time, energy and materials cannot be accomplished by a single announcement or a single meeting, any more than a concern can expect to sell its product by publishing one, solitary advertisement. It must be a complete campaign, drawn up with care, executed with skill and "keeping everlastingly at it." Every message must prove to the worker that it is to his direct advantage to co-operate to the best of his ability. And it must show him not only the "why" but the "how" as well. The reminders must be specific and to the point. When a firm proceeds in thoroughgoing fashion, just as it proceeds with its advertising and sales, results of the kind on which the accounting department can put its fingers invariably follows.

American business must conquer waste or waste will conquer it. We are entering upon an era of competition at home which calls for all the ingenuity executives can command in holding down costs. Furthermore, facts and figures available for anyone who cares to investigate show that even now—so soon after the adoption of the Dawes plan—European trade rivalry is becoming a very real thing. Imports of manufacturers are growing rapidly in many lines, and international competition, as one noted authority expresses it, "is beginning to be felt as never before." It is perfectly plain that, as this man declares, the inflow of lower priced goods from overseas will be an ever-increasing factor in our domestic situation. To meet these conditions manufacturers must use every method at their disposal to keep down the selling prices of their products.

There is just one way to do that, and that is to stamp out waste.

Every executive owes it to his enterprise to inform himself regarding the methods being successfully used by concerns, large and small, throughout the country, in solving this all-important problem.

### Foundry and Machine Shop Products.

Establishments engaged primarily in foundry and machine-shop work in 1923 reported products valued at \$2,337,807,997, an increase of 49.3 per cent, as compared with 1921, the last preceding census year, states the Department of Commerce. Of this amount, \$124,691,231 was contributed by boiler shops, \$354,708,016 by foundries, \$1,280,382,726 by machine shops, and \$578,026,024 by machine shops and foundries combined. Of the total reported by foundries (\$354,708,016), \$37,638,766 was contributed by foundries engaged primarily in the production of steel castings, \$117,386,866 by those which reported malleable iron castings as their principal products, \$154,928,816 by those making gray-iron castings and \$44,753,568 by those whose leading products were other kinds of castings.

This classification is not to be construed as covering all establishments using foundry and machine-shop processes. There are, however, many foundries and machine shops which make so great a variety of products that they cannot be properly assigned to specific industry classifications, and these have been included in a broad group designated as "foundry and machine-shop products."

In 1921 the industry was represented by 9013 establishments, the decrease to 8532 in 1923 having been due in part to changes in character of products, as a result of which certain establishments were classified in other industries for 1923, and in part to the fact that some establishments were idle, out of business, or engaged in other business than manufacturing in 1923. Nevertheless, the total for 1923 includes a number of establishments which are new to the census.

Statistics for 1923 and 1921 of the industries are summarized in the following statement:

	Preliminary 1923	Final 1921
Number of establishments.....	8,532	9,013
Wage earners (average number).....	449,040	321,363
Wages .....	\$642,649,017	\$412,359,408
Products, total value.....	\$2,337,807,997	\$1,565,526,944
Boiler shops .....	\$124,691,231	\$89,203,488
Foundries .....	\$354,708,016	\$202,732,815
Steel castings* .....	\$37,638,766	†
Malleable iron castings*.....	\$117,386,866	†
Gray iron castings*.....	\$154,928,816	†
All other castings*.....	\$44,753,568	†
Machine shops .....	\$1,280,382,726	\$986,698,366
Machine shops and foundries combined .....	\$578,026,024	\$286,892,275
Horsepower .....	1,233,894	†

\*These items represent the total values of products reported by the establishments engaged primarily in the manufacture of the specified classes of castings. They do not, therefore, represent exactly the values of the several classes of castings, for the reason that some of the establishments manufactured more than one class of products.

†Not reported separately in 1921.

### Smaller Hog Production Indicated.

Hog production in 1925 is probably as small as in any year in the last 10, and an acute shortage of hog products in 1926 is reported by the Agricultural Department as indicated in its December 1 pig survey. Based upon the results of previous surveys, which have shown about how much the number of sows farrowed has fallen short of breeding intentions, the present survey indicates a reduction of from 15 to 25 per cent in sows that will farrow in the corn belt in the spring of 1925 from the spring of 1924. For the country as a whole a somewhat similar reduction is indicated.

The total number of pigs raised in the corn belt in 1924 was probably 19 per cent less than in 1923. Quantitatively, this represents a reduction from 1923 of between 11,000,000 and 12,000,000 head; around 7,000,000 in the spring crop and 4,500,000 in the fall crop. But in spite of the large reduction in numbers born, the market movement to January 1 of the 1924 spring crop of corn belt hogs has been almost as large as the movement to the same date of the 1923 spring crop. December marketings and slaughter in 1924 were the largest ever recorded.

The reduction in sows bred this fall for spring farrow, com-

pared to a year ago, is indicated at around 2,000,000 head in the corn belt. Those will go to increase the winter market supply and to decrease the marketings next summer and fall, thus making the decreased supplies the more marked in the second half of the year.

### British Company With £500,000 Capital to Foster Cotton Growing.

Manchester, England, January 2.—Early this year there will be an offer of capital in a new company formed for the purpose of acquiring and developing an exclusive concession granted by the Iraq (Mesopotamia) Government for a large area of land suitable for cotton growing. The right has been granted to Sir John Norton-Griffiths, and covers an area of approximately 2,000,000 acres.

It is understood that the capital of the new company will be £500,000, and that the directors will include Sir Auckland Geddes, former Ambassador to the United States, who will act as chairman of the new company; two well-known cotton spinners, who, between them control about one-sixth of Lancashire's staple industry, and a well-known industrialist. The capital has been underwritten.

There have been many proposals recently for cotton-growing schemes in Egypt, the Sudan, Uganda, West Africa and other countries, so that this scheme is one of many.

### To Develop 1600 Acres on Tampa Bay—Expenditure of \$1,500,000 During Year.

St. Petersburg, Fla.—The development of 1600 acres of land on Tampa Bay, north of Gandy Bridge, will be undertaken by L. C. Wick of Pittsburgh, Pa.; M. W. Goodell of Binghamton, N. Y., and J. George Young of St. Petersburg, who have contracts with Rufus R. Wilson, president of the Florida Real Estate Bureau, to handle the development. Contract with Mr. Wilson, who has offices in New York and St. Petersburg, is said to provide for the organization of a company which will finance and develop the tract under his direction.

It is stated that the holdings may be considerably increased in acreage by filling, and, aside from work of that character, the company will expend more than \$1,500,000 on the development this year. The property will be intersected by Bay boulevard, which is to be extended from Safety Harbor to Gandy Bridge, while other boulevards and drives will also be built. Provision will be made for an 18-hole golf course and a \$1,500,000 hotel on the waterfront, negotiations for the construction and operation of which have already been started.

### Construction Soon on \$1,250,000 Hotel Apartment.

Houston, Texas.—Contract has been tentatively awarded to the Southwestern Construction Co. of this city for the erection of an eight-story hotel apartment here for the Plaza Apartment Hotel Co., and it is announced that work on the building will start within 60 days. Plans have been prepared by Joseph Finger of Houston for a structure of American Renaissance design estimated to cost \$1,250,000. The exterior will be faced with buff rough face brick, while trimmings will be of ornamental stone and terra cotta.

There will be approximately 90 apartments, ranging in size from one to four rooms, all to have built-in features, including bathtubs and beds. Kitchens will be supplied with gas ranges, built-in cabinets and other facilities; a garage will be provided for the use of tenants. A large refrigerating plant and cold-storage boxes will be installed and a locker provided in the basement for each tenant. Two high-speed elevators will afford passenger service for the upper floors.

Construction will be financed by G. L. Miller & Co., Atlanta.



### \$1,000,000 Office Building for Little Rock.

Construction has started on a new office building at Little Rock, Ark., which is being erected by Rector L. Williams at an estimated cost of \$1,000,000. The building will be located at Third and Spring streets, with a frontage of 110 feet on the former. It will be ten stories and basement, fireproof, of reinforced concrete construction, with street facades of light,



\$1,000,000 BUILDING UNDER CONSTRUCTION.

semi-glazed, terra cotta up to the third-story sill line, having a combination of brick and terra cotta in the third story surmounted by a belt course of terra cotta. From the fourth to the tenth floor levels matt brick of varying shades of red will be used. The tenth floor will be of terra cotta with pedimented openings and crowned with a delicate cornice and balustrade.

Ornamental detail will be of Italian Renaissance type, while the main entrance lobby will be of marble and decorative plaster, with an enriched plaster ceiling and marble floor. Corridor floors will be of terrazzo and walls of the same material wainscoted in marble, while other floors throughout the building will be of cement.

The structure will be equipped with high-speed elevators and will be heated by a vacuum system of low-pressure steam. Preston J. Bradshaw of St. Louis is the architect.

### \$300,000 Store Building for Oklahoma City.

Oklahoma City, Okla.—Plans are being prepared by Hawk & Parr of this city for a retail store building to be erected here by the Harbour-Longmire Co. at a cost of approximately \$300,000. The building will be of steel and concrete, 8 stories, 140 by 75 feet, with concrete foundations, floors and roof. It will be equipped with metal doors, vaults, ventilators, rolling partitions, steel sash and trim and wire glass.

### Building Gasoline Plant at Wetumka.

The Phillips Petroleum Co. of Bartlesville, Okla., advises the MANUFACTURERS RECORD that it is building a gasoline plant at Wetumka, Okla., A. H. Riney, engineer of the company, being in charge of construction. Clark Brothers gas engines of 165 horsepower capacity are being used as power units, on some of which Ingersoll-Rand compressors will be employed.

Buildings are being supplied by the Muskogee Iron Works of Muskogee, Okla., while the company is doing its own construction.

It is stated that the plant will be of the 13-unit absorption type for a daily capacity of 30,000 gallons.

### Carbon Black from New Process Reported by Bureau of Mines.

Possibility of manufacturing carbon black from oils by an electrical process, which is said to possess advantages over present methods of making this important industrial material by incomplete combustion of natural gas, is indicated as the result of experiments conducted by the Department of the Interior at the Pittsburgh experiment station of the Bureau of Mines. Carbon black is a fluffy, finely divided black pigment produced by allowing the yellow flame of natural gas burning with an insufficient supply of air to impinge against a cool metal surface. It is used extensively in the making of printers' inks, as a filler in automobile tires, which is said to have increased tire mileage over 20 per cent, and in the manufacture of stove and shoe blacking, phonograph records, black leather, typewriter ribbons, carbon-copy papers, carriage cloths, oil-cloths, linoleum, black opaque photographic papers, celluloid cement, wall tints and colors, marking inks and pencils and artificial tile.

In certain states the decreasing supply of natural gas, and drastic legislation against carbon-black plants, have prevented the expansion that would be economically justified by the increasing use of carbon black in the industries and the gradual rise in price for the better grades of black, says the Bureau. At present, Louisiana is the center of carbon-black production in the United States, and the black has to be shipped comparatively long distances to the chief markets, at freight rates that are high because of the bulkiness of the black.

In the course of investigations of the effects of high-voltage electrical discharges on hydro-carbons, it was noted by the Bureau of Mines' chemists that, under certain conditions, natural gas could be decomposed and carbon black produced.

In the manufacture of carbon black from oils, by the arc process developed by the Bureau, the two main essentials are a cheap electric power and cheap light-oil distillates. The process is suitable for non-continuous, or intermittent, operation and could, therefore, utilize some of the cheap off-peak electric power available. Because of the abundance of cheap off-peak power in nearly all large industrial centers, carbon black in many places can be manufactured where it is needed, with a considerable saving in freight rates alone.

In connection with the electrical manufacture of carbon black by the Bureau process, it is probable that the unsaturated gases produced during the decomposition of the oil may constitute profitable by-products if utilized for the manufacture of alcohols. Non-condensable gases formed in connection with the process are suitable for domestic fuel and could probably be sold in those localities where a market exists for domestic gas, thus reducing the total net cost of producing carbon black.

About 20 to 25 per cent of the present output of carbon black in the United States is used in printing and its allied industries; approximately 30 to 35 per cent of the total output is used in the rubber industry in the manufacture of automobile tires, hard rubber, electrical insulation, radio and auxiliary high-frequency and high-voltage equipment, etc., and about 15 to 25 per cent of the carbon black made in the United States is exported.

Details of these experiments are described in Technical Paper 351, by J. J. Jakosky, copies of which may be obtained for 10 cents from the Superintendent of Documents, Washington, D. C.

### Big Cotton Conference at New Orleans in April.

The Twenty-ninth annual convention of the American Cotton Manufacturers' Association will be held in New Orleans on Friday and Saturday, April 10 and 11. In connection with this meeting, a great cotton conference is in prospect, and invitations will be extended to all factors engaged in the cotton trade, especially the growers, ginner, warehousemen, shippers, merchants and distributors generally, including the co-operatives, the bankers and the exchanges.

It is felt by the members of the association that the present is an opportune time for such a "get-together" meeting, and that New Orleans is an ideal place for such a conference. Already, acceptances are reported from many of the larger agencies, and there is said to be every assurance that a most eventful and interesting session is in prospect.

The various New Orleans business bodies, including the Cotton Exchange, the Board of Trade, the Association of Commerce, the Clearing-House Association and others are bending every effort to make this convention one of the most largely attended and most successful ever held in the South. It will be something of an American cotton conference, in contradistinction to the world cotton congress in New Orleans in 1919. Between 500 and 600 of the South's leading cotton manufacturers probably will be present. The Roosevelt Hotel will be convention headquarters, with additional accommodations reserved at the St. Charles, Bienville and other hotels.

Particular emphasis will be given at this convention to the primary problems of production and distribution, the program including speakers of national note, who will be expected to offer practical suggestions in line with the advanced thought of the trade, looking to a better grade and staple for the South's major crop. Open discussions, participated in by manufacturers and others, will follow.

Belief is expressed that there is not, and never has been, enough of contact between the growers, who raise the cotton, and the manufacturers, who spin and weave it, and that the fundamental problems of both are so closely related that inestimable good would follow from a closer association and more sympathetic understanding. This, including the interrelated problems of the distributor, it is felt, should make this convention of more than ordinary interest.

The sessions on Friday will be devoted to a consideration of general problems touching the cotton trade, with a great cotton banquet in the evening. The single session on Saturday morning will be confined to manufacturers, when reports will be received from the various committees of the American Cotton Manufacturers' Association, and the election of officers will follow.

It is expected that an unusually large attendance will be present from the North and East. Arrangements have been perfected for the operation of special cars from Washington, leaving on Wednesday evening, April 8, and arriving in New Orleans in ample time for the opening session on Friday.

Officers of the American Cotton Manufacturers' Association are: A. W. McLellan of New Orleans, president; W. J. Vereen, Moultrie, Ga., first vice-president; S. F. Patterson, Roanoke Rapids, N. C., second vice-president; W. D. Adams, Charlotte, N. C., secretary and treasurer.

### Tampa Plans Board of Trade Building.

Tampa, Fla.—Subject to ratification by popular vote, the Tampa Board of Trade has contracted with the city for a building site in the southeast corner of Plant Park on the waterfront. An election for the purpose of ratifying the contract will be held on March 17.

The proposed building will be financed by a bond issue of \$300,000, the bonds to be retired in 30 years, at which time the property and building will be conveyed to the city.

According to preliminary sketches, the structure will consist of a main unit of two stories and basement, 45 by 120 feet, with a 13-story tower, 45 by 45 feet in its main dimensions. Two stories of the main portion of the building will be occupied by the Board of Trade, plans providing for executive offices, tourist bureau, assembly chamber, sun rooms and kitchenette. The tower will contain 90 offices for renting. M. Leo Elliott of Tampa is the architect.

### Wants Peace in Coal Fields.

Huntington, W. Va., January 9.—[Special.]—The miners' union has just been flayed by the Huntington Chamber of Commerce in a resolution adopted by its board of directors which charges attempts to curtail production and to imperil business. The action of the Huntington Chamber follows similar action by the Charleston Chamber of Commerce, both bodies taking the position that the campaign of violence waged by the miners' union not only is an attempt to destroy the independence of workers, but also is inimical to the best interests of the state. The resolution:

"Whereas, it appears that a conspiracy exists to curtail or prevent further coal production in West Virginia and contiguous territory by certain organizations and interests; and,

"Whereas, in their effort to enforce unionization of the West Virginia mines for the accomplishment of this ruinous purpose, hundreds of lives have been taken and millions of dollars' worth of property destroyed; and,

"Whereas, there has been much unfriendly, untrue and unjustifiable publicity spread throughout the country for the purpose of discrediting this state and its leading industry, which may be traced to false statements emanating from sources that desire to ruin the coal business of this state and adjoining non-union fields; and,

"Whereas, any injury, whether temporary or permanent, inflicted upon the coal industry of this state and adjoining territory is quickly reflected upon all business within this section; and,

"Whereas, the city of Huntington, its citizens, business and industries are alive to the importance of maintaining law and order in the state and surrounding territory; in the preserving of the freedom of labor therein, and feel especially the importance of the preservation of such law, order and freedom in the coal fields; be it

**Resolved,** That we deprecate the agitation and propaganda that has for the past several years so persistently been spread in the coal fields of the Guyan, Kentucky and Kanawha Valley, largely, as this body believes, carried on with foreign money and organized miners' officials, conspiring to rob this section of southern West Virginia and eastern Kentucky of their natural advantages and wealth; we do pledge that this Chamber of Commerce will do all in its power in every legitimate way to preserve to our people their right to develop and peacefully enjoy the wealth and advantage given to us in our coal fields by a kind and gracious Providence."

### New Freight and Passenger Service to Florida.

A new freight and passenger service has been established between Philadelphia and Miami by the Merchants & Miners' Transportation Co. of Baltimore, having been inaugurated on January 4, when the steamer Berkshire sailed with a full passenger list. The vessel left Philadelphia on its second trip January 16, and is scheduled to sail again on January 26, sailings thereafter to be about every 10 days. Southbound stops are made at Savannah and northbound stops at Jacksonville.

### Plans Accepted for \$500,000 Hotel.

Charlottesville, Va.—Plans have formally been accepted by the directors of the Jackson Park Hotel Co., Inc., for the erection of a 200-room, \$500,000 hotel here at Jefferson and 5th streets. The structure will be of Colonial design. Construction bids will be received until February 2. Stanhope S. Johnson and R. O. Branham of Lynchburg are the architects.



### \$2,000,000 Hotel Planned for Kansas City.

The Westport Hotel Operating Co., George H. Siedhoff, president, Wichita, Kan., has incorporated to build a \$2,000,000 hotel in Kansas City, Mo. Mr. Siedhoff advises the MANUFACTURERS RECORD that the structure will be located on the northeast corner of 14th street and Baltimore avenue, the purchase price of the site being \$250,000. The plans provide for a 12-story building to contain 426 renting rooms with bath. It will be faced with variegated brick and terra cotta trim, of U-shaped construction. Each room will have outside exposure.

Shepard & Wiser of Kansas City are the architects, and the George H. Siedhoff Construction Co. of Wichita is general contractor. The hotel will be conducted for transient patrons only, as the management will probably cater to commercial trade. Construction will begin about February 1.

### Takes Over Manufacture of Diesel Engine.

Jacksonville, Fla.—By the terms of an agreement between the Crankless Engine Co. of this city and the Morse Dry Dock & Repair Co. of New York, the latter company will take over the manufacture of the crankless marine Diesel engine manufactured by the Jacksonville firm. The agreement provides for the payment of a royalty, it is said, to stockholders of the Crankless Engine Co., which will continue its plant here for the production of automobile engines.

It is stated that an automobile manufacturer is negotiating with the company for the production of the automobile engine.

### Big Mill Begins Operations at Baton Rouge.

New Orleans, La.—The new plant constructed here by the C. C. Mengel Co. has begun operations, the sawmill being the first unit to start, and later the veneer plant. Output of the entire plant will be approximately 1,750,000 feet of sawn lumber each month, of which about 30 per cent will be in commercial veneers. This capacity will be doubled when the plant is operated in two shifts, as is contemplated when conditions warrant. Operating on one shift, it will employ about 350 people, of whom 75 will be girls.

### Erecting Eight 80,000-Barrel Steel Tanks.

Texas City, Texas, January 17—[Special.]—Eight additional steel storage tanks, each of a capacity of 80,000 barrels, are being erected here by the Vacuum Oil Co. With the completion of these tanks the company will have a total of 28, having an aggregate capacity of 1,870,000 barrels. It is handling a total of 1,000,000 barrels of oil a month through the port of Texas City.

### Plan \$2,000,000 Hotel at Tampa.

Construction of a \$2,000,000 hotel on Davis Islands, a development which has been undertaken at Tampa, Fla., by the D. P. Davis Properties, is scheduled to begin as soon as streets now under way can be completed and the site made ready for the structure. Plans are being prepared by Martin L. Hampton of Miami, it is said; the building is to be 348 by 258 feet, fronting both on the bay and Biscayne avenue.

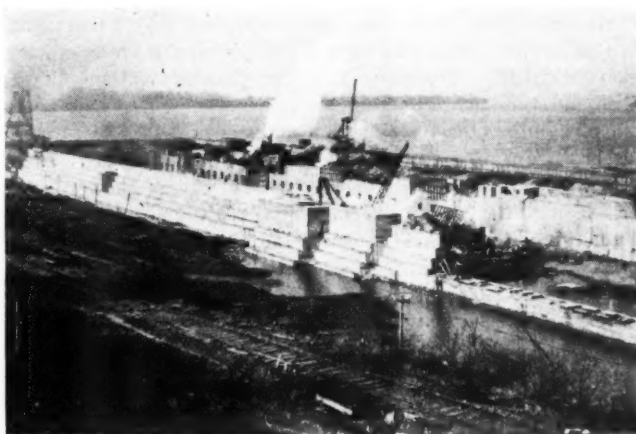
### Bank May Erect \$1,000,000 Building.

West Palm Beach, Fla.—Announcement has been made that the Farmers Bank & Trust Co. of this city will erect a \$1,000,000 building on the site of its present bank at Olive street and Clematis avenue. The structure will be seven stories, ground floor to be occupied by the bank and the remaining stories devoted to offices. Construction is expected to begin about April 1.

## Building Big Dam on Ohio River Near Owensboro, Ky.

By W. A. WELLS, Assistant Engineer.

In the canalization of the Ohio River the Government is constructing by hired labor Lock and Dam No. 46, located at the lower edge of the city of Owensboro, Ky. The lock is of standard construction; 600 feet long by 110 feet wide. The dam is one of the longest on the river, consisting of 1300 feet of movable dam, two bear traps to occupy 220 feet and 850 feet of fixed dam, making a total of 2370 feet from the river



VIEW OF DAM UNDER CONSTRUCTION AT OWENSBORO.

walls of the lock, which is situated on the Kentucky side, to the abutment on the Indiana side of the river. The pool that this dam will form after completion is the longest on the river, being about 50 miles in length.

During 1924 80 per cent of the lock was completed, which was excellent progress for the condition of the work at the beginning of the year, the short season that was experienced after unwatering the lock cofferdam, and the flood stage of the river that occurred after the initial unwatering.

Following is a list of firms furnishing the bulk of the material used last year:

The Atlas Portland Cement Co., Hannibal, Mo., cement; Carnegie Steel Co., Pittsburgh, Pa., steel, iron and bronze, steel sheet piling; the J. & J. B. Milholland Co., Pittsburgh, Pa., fabricated steel, iron and castings, and the Lakeside Bridge & Steel Co., Milwaukee, Wis.

The lumber for forms, etc., timber for derricks and wood piling for the foundation were furnished by the following companies: The Marsh, Truman Lumber Co., Chicago, Ill.; Hayden & Wescott, Chicago, Ill.; Allied Sales Corporation, Tuscaloosa, Ala.; C. W. Brickley Lumber Co., Louisville, Ky.; Daly Lumber Co., Cincinnati, Ohio; Daviess County Planing Mill Co., Owensboro, Ky.; J. C. Greer, Evansville, Ind.; Pacific National Lumber Co., National, Wash., and L. W. Johnson, Calhoun, Ky.

Machinery was supplied by the Westinghouse Electric & Manufacturing Co., Louisville, Ky., generators; Westinghouse Air Brake Co., Pittsburgh, Pa., air compressors; McKiernan-Terry Drill Co., Dover, N. J., steam hammers.

Supplies were furnished by the E. A. Kinsey Co., Cincinnati, Ohio; the Belknap Hardware Co., Louisville, Ky.; the Evansville Supply Co., Evansville, Ind.; the U. S. Rubber Co., Indianapolis, Ind.; Wickwire-Spencer Steel Corporation, Worcester, Mass.; Pigeon-Thomas Co., Memphis, Tenn.; Joseph T. Ryerson, Cincinnati, Ohio, and Mullen & Haynes, Owensboro, Ky.

Riprap stone was supplied by F. S. Pauline & Co., Cannelton, Ind., and Ingalls Stone Co., Bedford, Ind.

## THE IRON AND STEEL SITUATION

### Steel Industry at 85 Per Cent Capacity.

Pittsburgh, January 19.—[Special.]—The steel market continues to present an appearance of quietness, but this is merely relative to the great activity of November and December. Some observers refer to steel buyers exhibiting a conservative spirit because they do not continue to buy and specify as they did in the past two months, but as a matter of fact this could not be expected. The purchases have to be digested.

The steel industry is operating at about 85 per cent of capacity, on an average, and seems well fortified to continue approximately this rate for the remainder of the quarter without further extensive buying. Some plants are operating practically full. There is a heavier operation at bar, shape, sheet and tinplate mills than at some other classes of mills. The pipe mills, for instance, are going at 75 to 80 per cent, this being an off season in oil country tubular goods. Prospects are that there will be much heavier demand for well-drilling material this year than last, the oil situation, as to production, stocks and consumption, having lately become favorable.

In the majority of steel lines deliveries now being made are at prices below those now ruling, as there was heavy buying on the eve of the advances of the past two months. The general principle is that there should be further buying at present prices before further advances are thought of, but there is already a little talk along that line, started presumably for the purpose of inducing buyers to make further commitments.

With steel-making capacity so much larger, relative to requirements, than before the war, buyers are indisposed to carry stocks of any size, believing that they can always secure reasonably prompt shipment on new orders. Stocks were very thoroughly liquidated before the election, but there has since been time for considerable replenishment, and actual consumption will have to increase in order to sustain the present mill operating rate. This it is fully expected to do. The present 85 per cent operation compares with averages of 68 per cent in 1924, 80 per cent in 1923 and 66 or 67 per cent in the six years since the war.

Fabricated steel contracts reported in the past fortnight as closed total about 60,000 tons, making a very fair showing of activity. The test was awaited with considerable interest, as the very heavy contracting last November was produced largely by the fact that old options, at low prices, were about to be withdrawn. The recent buying is at the higher level indicated by recent advances in mill prices on the plain shapes.

While the rail mills entered the year very comfortably booked for six months of operation, there is a fair volume of buying from week to week and now and then a road which had already bought increases its order.

The sheet market is rather dull in point of new sales, but the sheet mills are very well booked, chiefly or largely at prices below those now ruling. Two or three mills, which did not fill up, are shading regular prices, but such shading is rarely absent altogether from the sheet market, which is a highly competitive one.

Tinplate mills with few exceptions are almost fully sold for the half year, and have been increasing operations, being now at about 85 per cent of theoretical full.

The Connellsville coke market has had a further softening in the past week, which means simply that it has been unable to register in actual practice the double advance that was attempted. There was an advance in the open market late in November and early in December, and when the wage advance of December 16 was made operators added the cost of the wage advance to the advanced market. The higher

asking prices have not been realized. The market is now \$4.00 for spot furnace coke and about \$4.50 on contracts for the remainder of the quarter, with spot foundry at \$4.75 to \$5.25. These prices represent a little more than last summer's low prices plus the cost of the wage advance. Also they are practically the same as prices ruling a year ago, before the wage reduction which the recent advance has balanced.

Pig iron, being between buying movements, has been rather dull, but some furnaces claim prices are higher. Other observers think there may be a slight recession when the time comes for second quarter buying, as present prices are \$2 or thereabouts above prices on orders now being filled. The market is approximately \$22.50 to \$23 on Bessemer, \$21.50 to \$22 on basic and \$22 to \$23 on foundry iron, f. o. b. valley furnaces, with \$1.76 freight to Pittsburgh.

### Market Strong at Birmingham—Notable Activity in Cast Iron Pipe.

Birmingham, Ala., January 19.—[Special.]—The pig iron market in the South is strong, though sales are slow and in small lots. Quotations remain firm on a base of \$20 to \$20.50 per ton, No. 2 foundry. The small-lot sales are aggregating well in the absorption of what tonnage is remaining of the probable make of the first three months of the year. It is noted in the buying and the frequent inquiries that a buying movement is imminent again. Survey made shows that there will be an activity in production during the first half of the year and longer and that pig iron will be in need. Production is being increased. Before the month is out the Tennessee Coal, Iron & Railroad Co. will have its No. 1 blast furnace at Ensley, the big producer, making 600 tons a day, and the Oxmoor furnace, an iron-maker which has not been in operation since the World War, in active operation. The Sloss-Sheffield Steel & Iron Co. is getting into condition another blast furnace in the vicinity of Sheffield-Florence and it will be placed in commission shortly after the turn of the month if the market warrants it. But few of the available blast furnaces of the district will remain idle when these have been brought into commission.

The larger melters of pig iron in the home territory are going good. The cast-iron pipe industry, which consumes the largest amount of iron, appears to be in the midst of an activity that is not likely to die out in the near future. Quite a number of lettings are reported by the gas and water pipe manufacturers, while several specifications are to be seen in the future. Winter buying of cast iron pipe is promising. Reports from the district as to soil pipe and fittings are encouraging and a large quantity of iron is being melted. The several pipe shops in Birmingham are shipping as rapidly as they are producing, and where there is some warehouse stock it is being removed. The activity in the soil pipe and fitting is accounted for by the large amount of building going on. In the immediate territory the activity in construction work promises to keep up indefinitely. The stove foundries are also well supplied with business, while the radiator plant is running to about capacity. Other iron-melting industries are requiring delivery of iron. Even the larger plants are keeping a close watch on the iron deliveries.

The steel plants are participating in the general activity in the district. Nails and wire in particular are moving steadily. Prices of steel are very firm and incline upward, with production being speeded up wherever possible. The Gulf States Steel Company at its Gadsden plant has five open-hearth furnaces in operation; the sixth furnace is being put in shape to take up the work of any others which may need repairing. The big plants of the Tennessee Coal, Iron &



Railroad Co. at Ensley and Fairfield are operating to near capacity and a large quantity of basic iron is being used. Further progress is noted on the new steel plant of the T. C. I. at Fairfield. The steel work of the structure attracts attention. This mill has four open-hearth furnaces. The steel sheet mill is also showing signs of early completion and interest is being manifested in this development. It is generally conceded that the sheet mill will bring to the district some smaller mills.

The coal mining industry notes a little improvement as a whole. The iron and steel companies are producing more coke and using more fuel; the transportation companies are also consuming steadily. The domestic coal demand is not showing a very heavy pace.

The coke market is showing steady improvement, the demand for the product being stronger than for some time. Quotations are firmer, though not advancing. Prices range from \$4.50 to \$5 per ton, foundry, while the furnace coke is quoted as low as \$4. Much coke is moving and there is warrant for an increased output. The desertion of beehive ovens in the Alabama field is noticeable. More and more attention to by-product methods of making coke and recovering the by-products is being given in this state, with but two companies now operating beehive ovens, each, however, reporting business very good. The addition of 25 Kopper ovens to the plant of the Alabama By-Products Corporation, to be completed in March, will add materially to that corporation's output. The new by-products plant of the Republic Iron & Steel Co., under construction at East Thomas, 57 ovens, will furnish that company plenty of coke for the three blast furnaces operated here. The Woodward Iron Company has 230 by-product coke ovens and has let contract for the rebuilding of 40 of these ovens, the Koppers company to start on the work shortly. This will increase the output of this company.

Announcement is made that big tractor plant will be erected at Bessemer, 12 miles from Birmingham, the machinery being ordered and the plant to be in operation by May or June. The industry will represent an outlay of several million dollars. Ownership is said to be in hands of a few men who look upon this district with favor as a center for production.

The scrap iron and steel market shows strength, yet with much old material moving. Inquiries are being received indicating that some of the big melters of old material will buy right along. Heavy melting steel is a little more active, though quotations hold at \$15.

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$20.00 to \$20.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$20.50 to \$21.00; iron of 2.75 to 3.25 per cent silicon, \$21.00 to \$21.50; iron of 3.25 to 3.75 per cent silicon, \$21.50 to \$22.00; iron of 3.75 to 4.25 per cent silicon, \$22.00 to \$22.50; charcoal iron, f. o. b. furnaces, \$30.00.

#### OLD MATERIAL.

Old steel axles	.....	\$18.00 to \$19.00
Old iron axles	.....	19.00 to 20.00
Old steel rails	.....	15.00 to 15.50
Heavy melting steel	.....	15.00 to 15.50
No. 1 cast	.....	17.00 to 17.50
Stove plate	.....	15.00 to 16.00
No. 1 railroad wrought	.....	14.00 to 15.00
Old car wheels	.....	16.00 to 17.00
Old tram car wheels	.....	17.00 to 17.50
Machine shop turnings	.....	8.00 to 9.00
Cast-iron borings	.....	8.00 to 9.00
Cast-iron borings (chem.)	.....	15.50 to 16.50

### Woodward Iron Co. Rebuilding 40 Coke Ovens.

Birmingham, Ala., January 19—[Special.]—The Woodward Iron Co. has let contract to the Koppers Co., Pittsburgh, for rebuilding 40 by-product coke ovens at Woodward. This company already has 230 by-product ovens and rebuilding 40 of them will materially increase the coke make.

The Koppers Co. will soon complete 25 additional ovens being built at the plant of the Alabama By-Products Corporation at Tarrant City, and has started on a battery of 57 ovens for the Republic Iron & Steel Co. at East Thomas.

## RAILROADS

### \$6,000,000 FOR RAILROAD SHOPS.

#### Illinois Central System to Begin Work at Once on Buildings at Paducah, Ky.

New railroad shops, to cost about \$6,000,000, are to be built at Paducah, Ky., according to a press report from that city as well as from Chicago, where the headquarters of the Illinois Central Railroad Co. are situated, President C. H. Markham being quoted as making the announcement, and saying that construction is to begin immediately with the purpose of completing the locomotive shops this year, and all of the buildings as soon as possible next year.

Besides the engine erecting shops, there will be a locomotive repair shop, a car-building shop, a car-repair shop, a carpenter shop, a wood mill and a storeroom. A large tract of land several blocks in area has been bought for the site. The locomotive shop will be 260 by 625 feet, with a craneway 80 by 240 feet. Some of the other shops planned will be as follows: Foundry, 80 by 200 feet; boiler shop, 75 by 175 feet; blacksmith shop, 450 by 850 feet; steel car-repair shop, 150 by 650 feet; power-house, 100 by 150 feet; overhead craneway, 40 by 730 feet; machine shop, 14 by 625 feet; tank shop, 125 by 600 feet; air brake shop, 40 by 100 feet.

In addition to the nine buildings enumerated there will be other buildings for car storage, a wheel shop, a car department, a wash and locker building, besides other offices for master mechanic, enginemen, supervisors, etc. Structural steel has already been bought for the first construction planned.

When all the shops are in operation it is stated that an average of 4000 men will be employed, but that when working at full capacity 5000 will be engaged.

### Loadings of Railroad Freight Increase.

Loadings of revenue freight on the railroads during the week ended January 3 totaled 765,727 cars, according to reports filed by the companies with the car service division of the American Railway Association. Notwithstanding that the week included the holiday of New Year's Day, this total showed an increase of 118,847 cars as compared with the previous week, which included Christmas Day, and it was also an increase of more than 59,000 cars as compared with New Year's week a year ago. All commodities showed increases in the freight movement in comparison with the week before, the greatest gains being in loadings of coal and of miscellaneous freight.

### Decision to Equalize "Placing" of Coal Cars.

According to a press dispatch from Washington the Interstate Commerce Commission on January 12 issued an order directing the railroads to cease, by March 1, giving preference to large car-owning companies in placing coal cars to be loaded, the Commission reaffirming a previous decision that this practice constitutes discrimination.

It is further stated that under the rules established by the Interstate Commerce Commission the bituminous coal mines are each given a car rating based upon their output, but that the railroads have followed the practice of placing privately-owned cars—those owned by big coal-using corporations—in excess of the rated allotment, while mines supplying customers not owning cars have lacked a full quota. Eight of the leading industries of the country who have to use daily large amounts of coal are mentioned as being affected by the order of the Commission, which in effect finds that they are receiving preferred treatment from the railroads in plac-

ing their privately owned coal cars. The order also applies to cars regularly assigned to regular service between certain mines and certain plants, these being what are technically called "assigned" cars.

In times of stress it is alleged that in consequence of the practice that is now ordered to cease, industrial plants having their own cars or else assigned cars obtain service in excess of the mine ratings of cars and that other customers of the mines suffer. Three members of the Commission dissented from the decision of the majority.

### **Southern Railway Surveying for New Coal Route.**

Louisville, Ky., January 17—[Special.]—Announcement has been made by J. B. Munson, vice-president of the Southern Railway system, that the Southern is making a survey preliminary to beginning construction of a new line to connect the St. Louis-Louisville line at Danville, Ky., with the Knoxville-Jellico line at Jellico, Tenn. The distance is 125 miles and the estimated cost of the construction is between \$10,000,000 and \$15,000,000. A direct line from Louisville to Knoxville will be made possible by this connection. South of Danville the new construction will practically parallel the Knoxville branch of the Louisville & Nashville Railroad.

This new Southern line will permit quick delivery of coal from the rich mining territory between Knoxville and Jellico to the North and West. The Fonde mines in Kentucky and the Coal Creek properties in Tennessee are in this territory. Coal from this territory for Northern and Western destinations must now make the trip south to Knoxville before it can be sent to consuming points on the Great Lakes and west of the Mississippi.

Relief will thus be given to the main line of the Southern from Chattanooga to Cincinnati, for the construction of this new coal-carrying branch will throw traffic which formerly went to Cincinnati through the Louisville gateway, thus linking the metropolis more closely than ever with the state of Kentucky.

### **A Fine Agricultural Bulletin.**

The Missouri Pacific Agricultural Development Bulletin is a new monthly periodical issued by the Missouri Pacific Railroad Company, the first number being dated January, 1925. The first page begins with an article telling about what is being done in Arkansas to promote the truck and fruit-growing industry in that state, and there is also a picture with biographical sketch of John T. Stinson, director of agricultural development for the railroad. In the center of the page is an announcement by Mr. Stinson of what the department is doing to co-operate with farmers in Arkansas and Louisiana to bring about a change in the methods of agriculture so that there may be produced a spring money crop. The entire publication is well written, containing articles of interest to everyone concerned with farming, fruit growing and stock raising.

### **Survey for a Santa Fe Branch.**

Levelland, Texas, January 16—[Special.]—In accord with its policy of gridironing northwestern Texas with branch lines of railroad, in keeping with the progress of agricultural development, the Atchison, Topeka & Santa Fe has placed engineers in the field to survey a route for a proposed road that is to run from Lubbock, Texas, west through Levelland to some point in eastern New Mexico not yet announced. It is stated, however, that the western terminus will probably be Roswell, N. M., to connect with the Pecos Valley division of the Santa Fe. The distance between Lubbock and Roswell is approximately 125 miles. The engineers have established camp at Levelland and are surveying west from here.

### **New Equipment, Etc.**

A contract for building 48 locomotive boilers and fire boxes has been awarded by the Chesapeake & Ohio Railway to the American Locomotive Co., President W. J. Harahan stipulating that they be built at the Richmond, Va., plant.

Chicago, Burlington & Quincy Railroad has ordered 1500 automobile cars of 40 tons capacity and 500 of 50 tons capacity from the Pullman Car & Manufacturing Corporation.

Missouri Pacific Railroad's recent order for passenger equipment consists of 10 baggage cars, 10 mail storage cars, 1 combination passenger and mail car and 2 dining cars, these to be built by the American Car & Foundry Co.; 9 combination baggage and mail cars and 6 divided passenger cars by the Pullman Car & Manufacturing Corporation.

Oklahoma City-Ada-Atoka Railway is reported in the market for 50 all-steel box cars of 50 tons capacity and an equal number of single-sheathed box cars of 40 tons capacity.

Atlanta & West Point Railroad has ordered 2 Mikado type locomotives from the Lima Locomotive Works.

New York Central Railroad has ordered 1000 gondola cars of 55 tons capacity, 500 to be built by the American Car & Foundry Co. and 500 by the Pullman Car & Manufacturing Corporation.

Charleston & Western Carolina Railroad is reported in the market for 100 single-sheathed box cars of 40 tons capacity.

Texas City Terminal Railway has ordered 1 six-wheeled switching locomotive from the Baldwin Locomotive Works.

International-Great Northern Railroad has ordered 14,000 tons of rail from the Bethlehem Steel Corporation.

### **Street Railway Extension Planned.**

The Asheville Power & Light Co., Asheville N. C., according to a report from there, has plans to build a street-railway extension from that city to Oteen Hospital, and rights of way are being purchased. The line will be six miles long and will also provide transportation facilities to and from the Asheville Recreation Park, the municipal golf course, the tourist camp, etc. Construction is to begin as soon as the right of way has been obtained for the entire route.

### **Application to Acquire a Short Line.**

Application has been made to the Interstate Commerce Commission by the Atlantic Coast Line for authority to acquire the Moore Haven & Clewiston Railroad, 14 miles long from Moore Haven to Clewiston, Fla. C. D. Moore is superintendent. The line connects with the Atlantic Coast Line at Moore Haven, and it is stated that there are \$100,000 of stock and bonds which the Coast Line proposes to guarantee or else acquire in the deal.

### **Large Order for Signal Lights.**

A contract has been awarded by the Nashville, Chattanooga & St. Louis Railway to the Union Switch & Signal Co. for 298 color light signals and 48 switch indicators for the automatic block signal installations on its single-track line between Chattanooga, Tenn., and Atlanta, Ga., 137 miles. Orders are also reported given for electro-mechanical units to be added to the 24 lever Saxby & Farmer signal machine at Junta, Ga.

### **Resigns to Enter Publicity Work.**

J. W. Maden has resigned as industrial agent of the Atlanta & West Point Railroad, the Western Railway of Alabama and the Georgia Railroad to become associated with the Ripley Poster Advertising Co., of which George Ripley is the direct-head, with offices at 322 Houston street, Atlanta, Ga.



## GOOD ROADS AND STREETS

### Missouri Contracts for 1,381,730 Barrels of Cement.

B. M. Piepmeier, chief engineer of the Missouri State Highway Commission, Jefferson City, advises the MANUFACTURERS RECORD that cement requirements of the commission for 1923 have been contracted as follows: Monarch Portland Cement Co., Humboldt, Kan., 17,360 barrels; Missouri Portland Cement Co., Kansas City, Mo., 185,500; Kansas Portland Cement Co., Bonner Springs, Kan., 35,000; Ash Grove Lime & Portland Cement Co., Chanute, Kan., 17,500; Atlas Portland Cement Co., Independence, Kan., and Mildred, Kan., 326,000; Great Western Portland Cement Co., Mildred, Kan., 327,000; Dewey Portland Cement Co., 15,570; Alpha Portland Cement Co., St. Louis, 200,000; Lehigh Portland Cement Co., Iola, Kan., 25,000, and Marquette Cement Manufacturing Co., Cape Girardeau, Mo., 232,800 barrels.

The stated locations of the various companies are those of the mills from which cement will be shipped, the distribution giving the commission the advantage of short hauls to those sections of the state to be supplied.

### Selects Road Engineers—Will Expend \$1,000,000.

York, S. C.—At a meeting of the York County Permanent Roads Commission here, the firm of Lee, Murray, Palmer & Brown of Sumter, S. C., and Greensboro, N. C., were selected as engineers for the county's proposed road project, for which a bond issue of \$1,000,000 was voted more than a year ago. The first roads will include one from York to Rock Hill, from York to Clover, from York to Sharon and from Rock Hill south to the Chester county line.

If additional funds become available, the commission has tentative plans for a road from Fort Mill to the North Carolina line, from York to the Chester county line through McConnellsville, from Clover to the North Carolina line, from Sharon through Hickory Grove to the Cherokee county line, and from Rock Hill east through Lesslie and Rodneys to the Chester county line.

### \$14,750,000 Arlington Memorial Bridge.

Washington.—A bill appropriating \$14,750,000 for the construction of the proposed Arlington memorial bridge across the Potomac River here has been passed by the Senate. The structure will have a total length of 2138 feet and a width of 90 feet, of which 60 feet will be used for the roadway, with a 15-foot sidewalk on either side. It will consist of nine spans, the center span being 184 feet long and the length gradually decreasing each way toward the shore, so that the end spans will be 166 feet long.

In addition to the bridge proper, it is also planned to fill Columbia Island, widen street approaches from the bridge to the Capitol, construct parkways into Arlington Cemetery and build the terminus of the Lee highway. Plans for the bridge are in charge of Col. C. O. Sherrill, superintendent of buildings and grounds in the District of Columbia.

### Contracts for Alabama Road.

Clanton, Ala.—Contracts have been awarded by the state highway commission, Montgomery, for the construction of the Chilton county link of the new Birmingham-Montgomery road, the section extending from Lomax to the Autauga county line, a distance of about 17 miles. Grading contract was awarded to the Gillis Construction Co. of Brewton, Ala., at \$84,752; bridges to C. B. Cox, Clanton, \$52,440, and concrete paving to the Morgan-Hill Construction Co., Birmingham, at \$229,814.

### Work Soon to Start on Birmingham Viaduct—Structure to Cost \$310,000.

Birmingham, Ala.—Plans for the construction of the proposed 24th street viaduct in this city have been approved at a conference here of city commissioners, railroad officials and property owners, and it is announced by W. E. Dickson, street commissioner, that work will begin by March 1. Provision has been made for a span of sufficient height to permit track elevation when construction of underpasses at grade crossings west of 21st street is started.

It is stated that the Southern Railway will award contract for the viaduct, which is estimated to cost \$310,000, and that work is to be completed within eight or nine months. The city will pay 35 per cent of the cost and the railroads the remainder.

### For Improved Highway, Raleigh to Savannah.

Raeford, N. C.—At a meeting here attended by representatives from North Carolina, South Carolina and Georgia, the Lafayette Highway Association was organized with Lawrence Freeman of Bennettsville, S. C., as permanent chairman, and Herbert K. Fox of Laurinburg, secretary and treasurer. The executive committee will be composed of one representative from each of a number of counties in North and South Carolina, and from Chatham county, Georgia.

A constitution was adopted and it was decided to incorporate the association at once for the purpose of promoting the construction of a highway to be known as the Lafayette Highway, extending from Raleigh, N. C., to Savannah, Ga.

### Bids on 96 Miles of Road and 14 Bridges.

Jefferson City, Mo.—Bids will be received until January 31 by the Missouri State Highway Board, at its office in this city, for 96 miles of road construction and for building 14 bridges. The work will include more than 25 miles of graded earth, 27 miles of gravel, nearly 22 miles of earth work and the same mileage of penetration macadam, asphaltic concrete or rock asphalt.

There will be four bridge projects in Livingston county, three in Shannon, two in Oregon and one in Lewis county, beside three in Polk and one in Cedar county.

### Will Construct 25 Miles of Concrete.

Raleigh, N. C.—Sealed bids will be received until January 27 by the State Highway Commission for the construction of two concrete road projects, having an aggregate of 25 miles, and for building bridges on the same roads. Project No. 284 covers 13.77 miles between Goldsboro and the Wilson county line. Project No. 642 covers 11.14 miles between Turnersburg and the Yadkin county line.

### May Issue \$2,000,000 of Bonds.

Jackson, Miss.—A petition has been presented to the board of supervisors of Hinds county asking a bond issue of \$2,000,000 for the construction of hard-surfaced roads. Tentative plans contemplate the expenditure of \$1,000,000 on Federal-aid projects and \$1,000,000 to build a highway from Jackson to Utica by way of Raymond.

Adams County Board of Supervisors, Natchez, Miss., will receive bids until February 3 for rebuilding an iron bridge over Mammoth Bayou on the Pine Ridge road, and for constructing a concrete floor on the structure.

### SAVANNAH RIVER BRIDGE A VITAL LINK. Completing \$655,000 Structure to Connect Important Sections of South Carolina and Georgia.

By B. P. McWHORTER, State Highway Department of Georgia.

Construction of the 4½-mile Savannah River bridge and approaches will be completed by April of this year. The contract for the work was awarded in September, 1922, and the actual precasting of the concrete piles began in November of that year. The first concrete pile was driven in February, 1923, and the last pile should be driven by the end of this month.

The project has a total length of 4.61 miles, divided as follows: 3.54 miles of earth fills surfaced with six inches of



HYDRAULIC SAND FILL.

Slopes and shoulders protected from scour by means of six inches of muck soil.

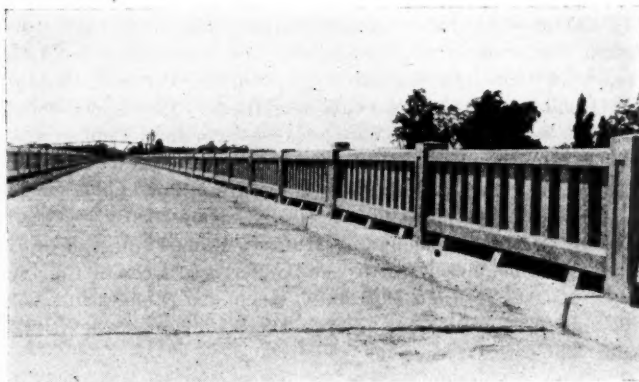
compacted clay-gravel, and 1.07 miles of concrete bridges, of which there are five in number.

When completed this will be the only bridge over the Savannah River south of Augusta, a distance of 125 miles. It will connect Savannah with a rich section in South Carolina and will be a very important link in the Atlantic Coastal Highway. Crepe myrtle trees of the watermelon variety will be planted on the fills at intervals of 100 feet, and between the trees, bulbs of various types and colors will be planted.

The work was financed by \$200,000 of bonds voted by Chatham county, Georgia, and \$50,000 each voted by the counties of Jasper, Hampton and Beaufort, South Carolina. The state of Georgia allotted \$173,000 Federal aid, and South Carolina allotted \$150,000 Federal aid to match the funds voted by the three counties. Including extras and engineering cost of supervision, the total cost of the bridge will be about \$655,000.

Construction contracts were awarded as follows: Fill approaches, A. J. Twiggs & Son, Augusta, Ga., at \$159,111; concrete bridge, Olaf Otio, Savannah, Ga., at \$313,668; steel

draw span, Virginia Bridge & Iron Co., Roanoke, Va., at \$28,000; Section "A," asphalt surfacing, Prichard Rains and Hazelhurst Construction Co., Savannah, Ga., at \$17,275; Section "B," gravel surfacing, Julian A. Tilson & Sons, Savannah,



CONCRETE BRIDGE—LOOKING TOWARD STEEL DRAW.

Ga., at \$49,770; Section "C," muck soil on slopes, Globe Dredging Co., Savannah, at \$44,829; approach to bridge, hydraulic fill, Globe Dredging Co., Savannah, at \$20,384, and gravel



FILL WITH GRAVEL SURFACING.

surfacing, Julian A. Tilson & Sons, Savannah, at \$20,341. The Globe Dredging Co. were also sub-contractors on a portion of A. J. Twiggs & Sons' contract, amounting to \$30,982.

### Navarro County Plans \$6,000,000 Bond Issue.

Corsicana, Texas.—At a mass-meeting recently held here and attended by representative citizens of every section of the country, the Navarro County Good Roads Association was organized. Preliminary details were considered for launching a campaign for a \$6,000,000 bond issue to build good roads in the county. Judge C. L. Lester was selected permanent chairman of the meeting and Thomas Farmer secretary.



SAVANNAH RIVER BRIDGE—SHOWING STEEL DRAW SPAN AND CONCRETE APPROACH.



## TEXTILE

### FIRST UNIT OF BIG SPINNING MILL NEAR COMPLETION.

#### Modern Mill Village Erected at Dalton, Ga.—Initial Installation of 36,000 Spindles.

Within a period of twelve months from the date of beginning construction it is expected that cotton will be running through the machinery of the big spinning mill at Dalton, Ga., which is being erected for the American Thread Co. of Georgia. This company was organized by the American Thread Co. of New York, and is capitalized at \$2,000,000. It is completing the first unit of its proposed mill, the initial installation to consist of 36,000 spindles.

Late in 1923, Lockwood, Greene & Co., engineers, of Atlanta and Boston, acting as agents for the American Thread Co. of Georgia, bought 500 acres of land for the plant on January 4, 1924, grading work for a spur track, and the mill was started, the work necessitating the removal of 75,000 cubic yards of earth. Contract for the construction of 135 operatives' houses was awarded to the Lagrange Lumber & Supply Co. of Lagrange, Ga., and work was started on April 8. The village was completed by October 15. All houses are equipped with electric lights and bathrooms and are connected with a modern sanitary system. Running water is furnished from a 300,000-gallon reservoir supplied from a spring by a Gould's three-stage centrifugal pump with a capacity of 100 gallons per minute.

Piping at the reservoir is arranged for an 8-inch village supply and a 10-inch supply for the mill buildings. For fire protection, there is a pump house on the edge of the lake with two 1000-gallon motor-driven centrifugal fire pumps taking their supply directly from a suction well at the lake. Main entrance streets to the mill are 50 feet wide, the village streets are 40 feet. They are to be finished with a chert surface and a combination concrete curb and gutter, with 4-foot sidewalks. Approximately four miles of sewer mains and laterals have been installed.

Contract for the mill buildings was awarded to A. K. Adams & Co., Atlanta. The structures include main mill building, picker building, storehouse and boiler-house. Dimensions of the mill building are 531 by 128 feet, two stories, with monitor roof and part basement, three stair towers, two toilet towers and two elevator towers. It is of reinforced concrete with concrete columns, beams and girders. The basement, 71.6 by 125 feet with a granolithic floor, will be used as a machine and carpenter shop.

The picker building is 70 by 107 feet, two stories and basement, and is connected to the mill by a two-story passageway and a bridge at the second story. The storehouse is 74 by 74.8 feet, four stories, of slow-burning brick and timber construction, and is equipped with elevator, automatic sprinklers

and steam heat. A portion of the first story will be used as the opener-room. The boiler-house is constructed of brick, with a wood roof on steel trusses. It is equipped with a 78-inch, 18-foot horizontal return tubular boiler, which has been installed for heating only, as all machinery will be motor-driven, power being furnished by the Georgia Railway & Power Co. Fenestra steel sash has been used throughout all buildings, with concrete window sills bearing on brick spandrel walls. General lighting has been installed in the mill and picker building, while steam for heating the structures is supplied to ceiling coils through mains in underground conduit from the boiler-room.

Several carloads of machinery have been received and work of installation is now under way. In addition to contractors already mentioned, there are the following, contracts being placed with the Atlanta offices: Nichols Contracting Co., grading; Beaulieu & Applewhite, steel sash; McBurney Stoker & Equipment Co., boiler feed pump, hand stoker and Vulcan soot blower; Boiler Equipment & Service Co., feed water heater; Grinnell Co., Inc., vacuum pumps, fire protection and piping and heating system; Fulton Supply Co., centrifugal pumps; Landers Plumbing & Heating Co., plumbing and heating; Allis-Chalmers Manufacturing Co., fire pump; Southern Industrial Painting Co., painting; C. P. Murphy's Sons, roofing and sheet-metal work; A. D. Bradfield, sewer system and fire protection; Otis Elevator Co., elevators; Brooks-Fisher Co., brick boiler setting; V. E. Mertz, humidifying, cooling and ventilating; General Electric Co., electrical equipment; Link Belt Co., silent chain drives; Western Electric Co., telephone equipment; J. M. Clayton, electric wiring, and William A. Manning & Sons, school heating. The R. D. Cole Manufacturing Co., Newnan, Ga., secured contract for horizontal return tubular boilers.

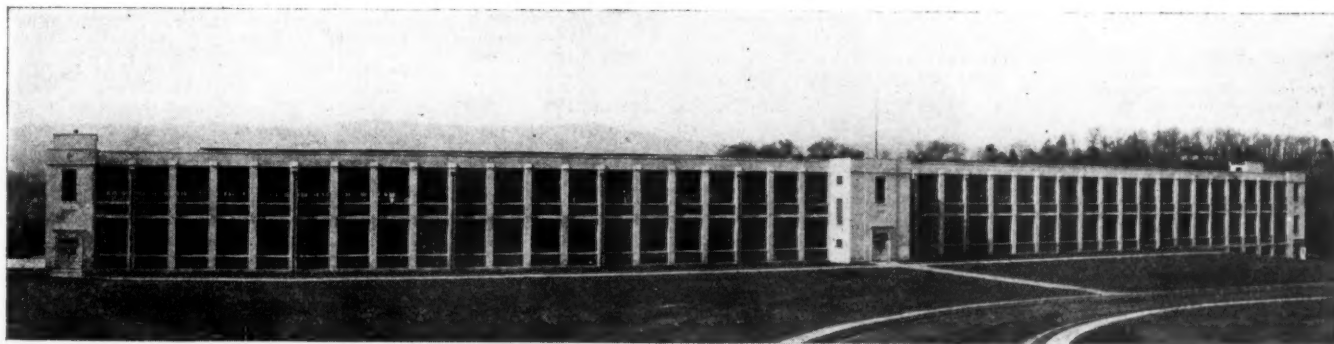
#### Construction Begins on 6000-Spindle Mill.

Shelby, N. C.—Papers of incorporation have been granted to the Ora Cotton Mill Co. of Shelby, having an authorized capital stock of \$500,000, with \$170,000 paid in. Incorporators include Charles Hanton, E. B. Hamrick, E. A. Hamrick, J. R. Dover and others, all of Shelby.

Ground has been broken for the 6000-spindle mill to be erected here, contract for grading having been sub-let to Sam C. Lattimore. General contract for mill buildings has been awarded to W. M. Welch, Inc., of Greenville, S. C. The main building will be 138 by 335 feet, one story, of daylight construction, with concrete and brick walls and steel-sash windows. J. E. Sirrine & Co. of Greenville are the engineers.

#### New Hosiery Mill for Gaffney.

Gaffney, S. C.—Application has been made by J. W. Boland and R. A. Dobson for a charter for the Sultrene Mills, with a paid-up capital stock of \$10,000, to establish a knitting mill here. The new company plans to conduct a general knitting business, including the production and sale of hosiery.



FIRST UNIT OF SPINNING MILL UNDER CONSTRUCTION AT DALTON FOR AMERICAN THREAD COMPANY OF GEORGIA.

# LUMBER AND BUILDING MATERIALS

## Activity in Lumber Movement Continues.

Washington, January 15.—Telegraphic reports to the National Lumber Manufacturers' Association from 367 of the chief sawmills of the country for the week ending January 10 indicate that the lumber industry has come out of the customary turn of the year restriction of activity on account of the holidays and repairs. Production, shipments and orders all show heavy increases over the preceding week. On the other hand, there was a decline in new business, as compared with that of the same week of 1924, although production increased and shipments show but a small decrease.

The unfilled orders of 251 Southern Pine and West Coast mills at the end of last week amounted to 666,999,771 feet, as against 654,618,621 feet for 252 mills the previous week. The 133 Southern Pine mills in this group showed unfilled orders of 238,519,078 feet at the end of last week, and 238,604,370 feet for 133 mills the preceding week. For 118 West Coast mills the unfilled orders were 428,480,693 feet, as against 416,014,251 feet for 119 mills a week earlier.

Altogether the 367 comparably reporting mills had shipments 94 per cent and orders 93 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 90 and 89, and for the West Coast mills 83 and 82.

Of the comparably reporting mills, 345 (having a normal production for the week of 213,548,290 feet) reported production 93 per cent of normal, shipments 87 per cent and orders 86 per cent.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past week	Corresponding week 1924	Preceding week 1925 (revised)
Mills .....	367	380	351
Production .....	210,742,602	198,150,622	143,421,588
Shipments .....	198,383,962	206,917,434	166,417,905
Orders .....	195,113,951	255,832,065	147,612,939

The following revised figures compare the lumber movement for the first two weeks of 1925 with the same period of 1924:

	Production	Shipments	Orders
1925 .....	354,164,190	364,801,867	343,726,890
1924 .....	336,832,860	369,375,067	431,503,034
1925 Increase .....	17,331,330	.....	.....
1925 Decrease .....	.....	4,573,200	87,776,144

The West Coast Lumbermen's Association wires from Seattle that new business for the 118 mills for the week ending January 10 was 18 per cent below production and 2 per cent below shipments.

The Southern Pine Association reports from New Orleans that for the 133 mills reporting for the week, shipments were 10.50 per cent below production, current orders 10.61 per cent below production and 0.13 per cent below shipments.

Publication of comparative regional tables will be resumed

next week. The accompanying table gives the relationship by months during 1924 of the production and shipments to orders.

## Report for 52 Weeks of 1924 and 1923.

Production in relation to shipments: Total revised figures indicate that for 1924, as a whole, shipments of the seven associations reporting comparably all three items—cut, shipments and orders—to the National Lumber Manufacturers' Association, were 31,000,000 feet, or 0.3 per cent above reported production, compared with 73,000,000 feet, or 0.6 per cent, by which shipments were below production in 1923.

Allowing 3 per cent of the total production for the lumber at the sawmills, which is disposed of through local sales and local use, burned, charged to factories for remanufacture, etc., total disposals of lumber in 1924 were about 390,000,000 feet, or 3.2 per cent, in excess of reported production, compared with 563,000,000 feet, or 4.4 per cent, by which total disposals in 1923 exceeded reported production of that year.

Orders in relation to shipments: The year 1924 shows orders below shipments by about 115,000,000 feet, or 0.9 per cent, for the seven associations which have reported comparably all three items during the year, compared with orders below shipments in 1923 of 515,000,000 feet, or 4.1 per cent, for the same seven associations.

## History of Portland Cement.

Almost coincident with the one hundredth anniversary of the invention of Portland cement, the International Trade Press, Chicago, announces the publication of a "History of the Portland Cement Industry in the United States." This is a well-printed, profusely illustrated volume of more than 300 pages. Its authors, Robert W. Lesley, John B. Lober and George S. Bartlett, have collected and arranged in instructive fashion for the layman as well as for the technical man the facts about the progress of Portland cement since Joseph Aspdin of Leeds, England, named the product in connection with his patent of October, 1824. Mr. Lesley is fully qualified to review the history of Portland cement, particularly in the United States, associated as he was with the pioneer manufacturers of America and intimately associated with the business through the greater portion of the past half century. There is a foreword by Floyd W. Parsons of the American Institute of Mining and Metallurgical Engineers and the Academy of Political Science. In the volume the reader will also find interesting stories of cement leaders—Saylor, Millen, Shinn, Lesley, de Navarro, Lober, Bartlett and other pioneers.

A chapter of the Associated General Contractors of America has been organized by the contractors of Shreveport, La., with W. H. Werner, president.

## RELATIONSHIPS OF PRODUCTION TO SHIPMENTS AND SHIPMENTS TO ORDERS FOR MONTHS OF 1924. BASED ON WEEKLY REPORTS OF SEVEN REGIONAL ASSOCIATIONS. (Revised figures, except for December.)

	January	Per ct.	February	Per ct.	March	Per ct.
Production below shipments.....	69,338,186	6.5	.....	.....	.....	.....
Orders below shipments.....	.....	.....	96,215,155	9.8	59,386,738	6.1
Shipments below production.....	.....	.....	4,241,955	.4	29,470,482	3.0
Shipments below orders.....	117,243,186	9.9	.....	.....	.....	.....
	April	Per ct.	May	Per ct.	June	Per ct.
Production below shipments.....	.....	.....	.....	.....	.....	.....
Orders below shipments.....	123,982,758	12.3	155,973,337	13.8	47,410,293	5.4
Shipments below production.....	25,420,905	2.5	68,564,290	5.7	69,965,325	7.3
Shipments below orders.....	.....	.....	.....	.....	.....	.....
	July	Per ct.	August	Per ct.	September	Per ct.
Production below shipments.....	33,297,453	3.3	.....	.....	.....	.....
Orders below shipments.....	.....	.....	.....	.....	16,549,646	1.8
Shipments below production.....	.....	.....	11,970,990	1.2	32,213,330	3.3
Shipments below orders.....	48,978,089	4.6	58,647,270	5.8	.....	.....
	October	Per ct.	November	Per ct.	December	Per ct.
Production below shipments.....	.....	.....	20,781,602	2.3	77,718,046	9.5
Orders below shipments.....	52,735,653	4.7	.....	.....	.....	.....
Shipments below production.....	9,602,104	.9	.....	.....	.....	.....
Shipments below orders.....	.....	.....	135,799,267	3.1	60,671,029	6.9



### 1924 Record Year in Cement Industry.

According to preliminary estimates of the Geological Survey, based mainly on the reports of producers of Portland cement, new high records were made in 1924 in cement production, shipments and stocks on hand at the end of the year. On December 31 stocks on hand are stated to be the greatest at the end of any year reported by the Survey. The preliminary totals of 1924 show a production of 148,859,000

barrels of cement, or an increase of 8.3 per cent over 1923. Portland cement shipments for the past year amounted to 145,747,000 barrels, or an increase of 7.2 per cent over 1923. Cement stocks on hand December 31, 1924, was 13,857,000 barrels, or an increase of 27.1 per cent over 1923.

The following table, compiled from a preliminary estimate by the Geological Survey, shows production, shipments and stocks on hand of Portland cement in 1924, compared with 1923, by districts:

	Production.		Shipments.		Stocks on hand Dec. 31	
	1923	1924	1923	1924	1923	1924
Commercial District						
Eastern Pennsylvania, New Jersey and Maryland.....	35,722,000	38,281,000	36,134,000	37,630,000	1,883,000	2,488,000
New York .....	6,990,000	7,547,000	6,853,000	7,450,000	653,000	793,000
Ohio, Western Pennsylvania and West Virginia.....	13,496,000	14,322,000	13,211,000	14,030,000	1,061,000	1,370,000
Michigan .....	7,620,000	9,162,000	7,466,000	8,993,000	784,000	937,000
Wisconsin, Illinois, Indiana and Kentucky.....	21,193,000	21,856,000	21,057,000	21,355,000	1,571,000	2,040,000
Virginia, Tennessee, Alabama and Georgia.....	7,909,000	11,347,000	7,621,000	11,375,000	458,000	469,000
Eastern Missouri, Iowa, Minnesota and South Dakota....	14,037,000	14,851,000	13,624,000	13,982,000	1,929,000	2,723,000
Western Missouri, Nebraska, Kansas and Oklahoma.....	9,779,000	9,912,000	9,573,000	9,595,000	1,163,000	1,469,000
Texas .....	4,179,000	4,566,000	4,091,000	4,488,000	278,000	356,000
Colorado and Utah.....	2,428,000	2,425,000	2,341,000	2,378,000	290,000	316,000
California .....	11,002,000	11,615,000	10,883,000	11,502,000	412,000	469,000
Oregon, Washington and Montana.....	3,105,000	2,975,000	3,058,000	2,969,000	418,000	427,000
Total .....	137,460,000	148,859,000	135,912,000	145,747,000	10,900,000	13,857,000

## MECHANICAL

### Elevating and Stacking Tractor.

An electric elevator tractor for transporting and stacking bulky cylindrical or rectangular loads, such as rolls of fabric, carpet, linoleum, rubber stock, steel, newsprint, barrels, bales, boxes, textile beams, etc., has been developed by the Elwell-Parker Electric Co., Cleveland, Ohio. Its method of handling is very ingenious, for it automatically picks up a load in any position and stacks it either vertically or horizontally as may be desired. The elevator lifts the lower end of the load until it is raised six feet, and thus material six feet high can be stacked end on end to twelve feet height with practically no additional attention, it is claimed. It is remarked that this method saves much valuable storage space, eliminates double handling by block and tackle, and conserves time and labor, besides avoiding hazards which attend the transportation and stacking of goods by hand.

The unit consists of an elevator tractor with a revolving apron or cradle for securing the load at the end of the platform, the cradle being built to suit. The load is raised or lowered by operating the elevating platform, while the cradle is revolved to any position from horizontal to vertical by means of the additional hoisting unit.

The two hoisting units for operating the elevator and revolving the cradle are standardized with interchangeable parts. All power for the equipment is supplied from one central storage battery carried in the battery compartment, with individual controllers for the lifting, revolving and driving mechanism, respectively.

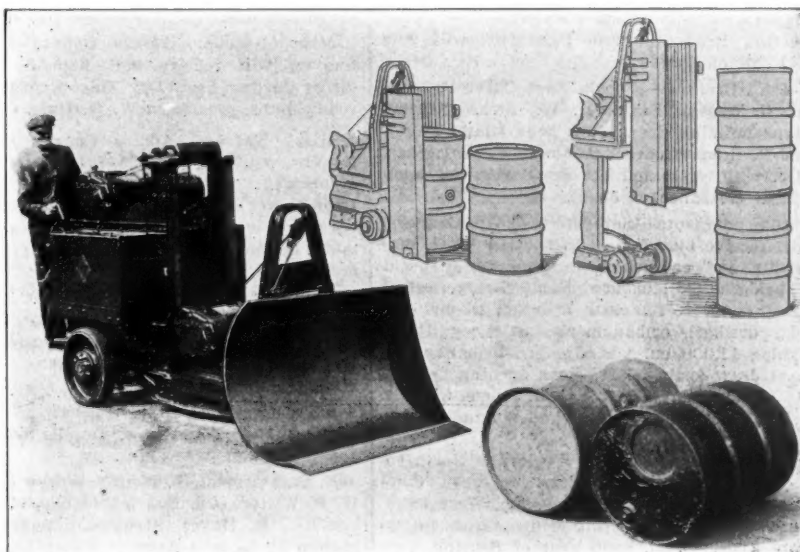
Two dual compensating wheels are used at the end nearest the load, affording wider tread, improved stability, longer life to tires and the employment of larger bearings. Standard Elwell-Parker safety devices are installed, together with some additional ones covering the new operation. For instance, if the elevating cable should slacken while lowering a load, due to striking an obstruction, the elevating motor stops instantly. One man operates the equipment.

### Wood Distillation and Charcoal Manufacture.

According to the data collected at the biennial census of manufactures, 1923, the establishments engaged primarily in wood distillation and charcoal manufacture reported a total output valued at \$29,695,423, an increase of 206.8 per cent, as compared with \$9,677,552 in 1921, the last preceding census year. The total for 1923 was made up as follows: Crude methanol (wood alcohol), 6,988,794 gallons, valued at \$4,131,931; refined methanol (wood alcohol), 5,085,884 gallons, valued at \$4,846,276; acetate of lime, 144,588,686 pounds, valued at \$4,823,403; charcoal, 45,885,143 bushels, valued at \$8,851,229; turpentine distilled from wood (not from the gum), 2,607,364 gallons, valued at \$2,014,666; rosin distilled from wood (not from the gum), 358,532 barrels, valued at \$1,368,085; other products—methyl acetone, formaldehyde, acetic acid, acetone, ketone, tar, tar oils, wood creosote, pine oil, etc.—valued at \$3,659,833.

### Baltimore Awards Contract for Ferryboat.

A contract has been awarded by the Board of Awards of Baltimore, Mayor Howard W. Jackson, president, to the Maryland Drydock Co., Baltimore, for building a double-end ferryboat to run between Broadway and Locust Point. The boat will carry 400 passengers and will cost about \$135,000. It is expected to be ready for service within five months.



THE NEW MACHINE IN OPERATION.

# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (\*) following an item indicates that the enterprise has been reported in a preceding issue.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

### Bridges, Culverts and Viaducts

Alabama—State Highway Comm., Montgomery, will build several bridges. Details under Road and Street Construction.

Ala., Birmingham—City Commrs., Southern Ry. Co., R. Hayes, Structural Engr., Washington, D. C., Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., and Seaboard Air Line Ry. Co., W. D. Faucette, Ch. Engr., Norfolk, Va., plan building concrete viaduct with steel reinforcement over railroad tracks on Twenty-fourth St.; cost \$300,000; railroads to pay 65 per cent and city 35 per cent.\*

Ala., Mobile—Alabama State Docks Comm., Wm. L. Sibert, Chmn., State Office Bldg., will receive bids Jan. 26 for concrete piers and abutments for draw bridge over Three Mile Creek; plans, etc., on file from Purchasing Agt., State Bldg.

Ark., Dardanelle—Yell County contemplates building free bridge across Arkansas River at Dardanelle; replace old pontoon bridge. Address County Commrs.

D. C., Washington—Henry Roberts, Pres. Lee Highway Assn., interested in constructing Arlington Memorial Bridge across Potomac River at Washington, on line between Lincoln Memorial and Lee Mansion. Arlington; 2138 ft. long, 60 ft. roadway and two 15 ft. sidewalks, nine arches, center span being 184 ft. long; cost \$14,750,000, including filling of Columbia Island; widen street approaches from bridge to capitol, build parkways into Arlington Cemetery, build terminus of Lee Highway; Col. C. O. Sherrill, military aide to President, and Supt. of Buildings and Grounds, Washington, in charge.

Fla., Bradenton—Manatee County Commrs. plan building bridge connecting Anna Maria and Longboat Keys and approaches to State Highway Bridge to span Manatee River, connecting Bradenton and Palmetto; will vote Feb. 23 on bonds.

Fla., Hialeah—Florida East Coast Ry. Co., W. G. Brown, Engr., M. W., St. Augustine, plans building drawbridge over Miami Canal, 156-ft. long from face to face abutments, electrically operated lift draw with net horizontal clearance of 55 ft.

Fla., Sarasota—Sarasota County Commrs. will receive bids Feb. 2 to furnish labor, materials and equipment to improve or build 2 bridges: Blackburn Point Bridge, steel draw span, 55-ft. clear opening, 23,000 cu. yds. dredged embankment; Stickney Point Bridge 11,000 cu. yds. dredged embankment, steel draw span, 55 ft. clear opening; plans, etc., from County Engr.; G. B. Prime, Chmn.\*

Fla., Sarasota—Details under Land Development.

Fla., Sebring—Florida, Western & Northern R. R., W. B. Bonsal, Pres. Jefferson Construction Co., 702 Guaranty Bldg., West Palm Beach, plans constructing bridge across Istok-poga Creek, 6 mi. southwest of Sebring.

Fla., Seffner — Hillsborough County Commrs. let contract to Erler Corp., Citizens Bank Bldg., Tampa, for concrete bridge on Tampa-Plant City Highway, near Seffner, across drainage canal cut in Dover Drainage Dist.

Ky., Roxana—King's Creek Lumber Co. will let contract for bridge across North Fork River; cost \$25,000.

La., Lake Charles—Calcasieu Parish, Engr. Shotts, plans building 100-ft. bridge over Indian Bayou, between Westlake and Gillis; replace burned structure.

Missouri—State Highway Dept., Jefferson City, will receive bids Jan. 31 for 10 bridges: Lewis County, over Sugar Creek on road from Canton to Monticello, 80-ft. steel truss span; Oregon County, 2 on road from Alton east; over Culp Branch, three 18-ft. reinforced concrete slabs; over Piney Creek, three 35-ft. reinforced concrete deck girder spans; Shannon County, 3 on road from Eminence to Winona, over stream, three 24-ft. reinforced concrete slab spans; over stream, 24-ft. reinforced concrete slab spans; Livingston County, 4 on road from St. Joseph to Hannibal; over Medicine Creek Drainage Ditch, 80-ft. steel truss span, four 20-ft. I-beam spans; over overflow of Medicine Creek, four 20-ft. reinforced concrete slab spans; over overflow of Medicine Creek, fifteen 20-ft. concrete slab spans; B. H. Piepmeier, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, will receive bids Jan. 31 for 4 bridges: Cedar County, over Bear Creek on road from Stockton to Bolivar, 130-ft. steel truss span; Polk County, 3 on road from Bolivar to Stockton; over stream, two 10-ft. reinforced concrete slab spans; over Barren Creek, 80-ft. reinforced concrete arch span, spandrell filled; over Ervin Creek, 20-ft. reinforced concrete arch span, spandrell filled; B. H. Piepmeier, Ch. Engr.

Miss., Natchez—Adams County Board of Suprvs. will receive bids Feb. 3 to build girder bridge over Dry Bayou, Washington road; plans, etc., from W. H. Hale, Clk.

Miss., Natchez—Adams County Board of Suprvs. will receive bids Feb. 3 to improve 2 bridges: Rebuild and reconstruct Iron Bridge over Mammoth Bayou, on Pine Ridge road; lay concrete floor on bridge over Mammoth Bayou, on Pine Ridge road; plans, etc., from W. H. Hale, Clk.

Mo., Seligman—Public Service Comm., authorized State Highway Comm., Jefferson City, to construct overhead crossing over tracks of Missouri-North Arkansas R. R. at Seligman.

North Carolina—State Highway Comm., Raleigh, will build 2 bridges. Details under Road and Street Construction.

N. C., Durham—Norfolk & Western Ry. Co., W. P. Wiltsee, Ch. Engr., Roanoke, Va., Southern Ry., R. Hayes, Structural Engr., Washington, D. C., and Atlantic Coast Line R. R.,

J. E. Willoughby, Ch. Engr., Wilmington, N. C., plan building underpass at Chapel Hill St. grade crossing.

Okla., Oklahoma City—Details under Road and Street Construction.

Tenn., Greeneville—Greene County Court appropriated \$15,000 to raise Bird's Bridge on Nolachucky River. Address County Commrs.

Okla., Stilwell—Adair County plans building 4 bridges: Over Baron Fork of Illinois River in Baron; over Shell Creek, tributary to Baron Fork; 2 over Evansville Creek at Chalk Bluff; voted \$40,000 bonds. Address County Commrs.\*

Tex., Austin—Travis County will receive bids Feb. 13 to construct drainage structures on Austin-Burnet (Bull Creek) road, 805 cu. yds. earth structural, loose rock structural and dry and wet solid rock structural excavation, 3000 lbs. reinforcing steel; O. Leonard, County Engr., Box 256; Geo. S. Mathews, County Judge.

Tex., Barstow—Ward and Reeves Counties will receive bids Feb. 13 to construct 193-ft. steel truss and concrete girder bridge across Pecos River between Reeves and Ward Counties, on State Highway No. 1; S. S. Posey, Res. Engr., Pecos; Geo. H. Tucker, Ward County Judge; H. N. McKellar, Reeves County Judge.

Tex., Beaumont—City plans building viaduct over tracks of Southern Pacific R. R.; will vote in Feb. on \$300,000 bonds, being city's share of \$1,000,000 proposition; Ollie J. Bloyd, City Mgr.

Tex., Dallas—Details under Land Development.

Tex., Goliad—State Highway Dept., Austin, plans improving bridge over San Antonio River, on Jeff Davis Highway.

Tex., Houston—Harris County will receive bids Feb. 10 for 5 bridges and one box culvert on State Highway No. 6, 227,481 lbs. reinforcing steel, 1231 cu. yds. dry and wet excavation; Howe & Wise, County Engrs., First National Bank Bldg.; Chester H. Bryan, County Judge.

Tex., Linden—Commrs. Court of Cass and Bowie Counties let contract to Austin Bridge Co., 1813 Clarence St., Dallas, to build Sulphur River Bridge on State Highway No. 1, in Cass and Bowie Counties; creosoted pile and timber; also 15-ft. graded and gravel surfaced road.\*

Tex., Pecos—Reeves County will build 2 bridges. Details under Road and Street Construction.

Virginia—Details under Road and Street Construction.

Va., Independence—Grayson County plans building bridge over New River, on road between Independence and Galax. Address County Commrs.

W. Va., Williamson—Norfolk & Western Ry. Co., W. P. Wiltsee, Ch. Engr., Roanoke,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



Va., requested permission Interstate Commerce Comm. to purchase railroad and bridge of Kermit-Warfield Bridge Co. across Tug Fork Branch of Big Sandy River, Wingo County.

### Canning and Packing Plants

Ark., Marshall—Elmer Blevins will erect tomato canning plant with capacity of car load tomatoes daily.

Fla., Groveland—Groveland Citrus Growers Assn. contemplate construction of packing house.

Fla., Homestead—Columbia Canning Co., Redford, Va., is erecting canning plant.

Ga., Atlanta—Cudahy Packing Co., 111 W. Monroe St., Chicago, Ill., will erect 3-story distributing plant at 409 Whitehall St.; cost \$100,000; plans are being prepared at Chicago office.

Ga., Savannah—Kiwanis Club appointed committee with H. O. Lodwen, Chrmn., to investigate feasibility of establishing canning plant for syrup, blueberries, vegetables, etc. (See Machinery Wanted—Canning Plant.)

Ky., Owensboro—Owensboro Preserving and Canning Co., capital \$25,000, incorporated by George Panagos, Owensboro; Nick Kalos, Bushnell, Ill., and others; has leased building and will establish canning plant.

Md., Baltimore—Webster-Butterfield Co., 2303 Boston St., capital \$250,000, incorporated by Oscar T. Sewall, T. Preston Webster and others.

Mo., Alton—Case Canning Co. of Marshfield considering establishment of cannery.

Mo., Whiteoaks—Elmer Blevins contemplates erection of cannery with daily capacity of carload tomatoes.

Tenn., Selmer—B. A. Craddock, W. K. Abernathy and others interested in organizing company with \$10,000 capital to establish cannery.

Va., Richmond—Frixburg Canning Co. incorporated with John T. Gee, Pres., Meherrin; Brownlee Frix, Sec., Carneal Bldg., Richmond.

### Clayworking Plants

Md., Brooklyn—General Refractories Co., Seventh and Chesapeake Sts., will construct 1-story steel addition and 7 drying kilns; cost \$35,000.

N. C., Charlotte—Carolina Clay Products Co. increased capital from \$125,000 to \$300,000.

N. C., Charlotte—Carolina Shale Brick Co., 131 Brevard St., increased capital from \$250,000 to \$350,000.

### Coal Mines and Coke Ovens

Ky., Louisville—The United Coal & Coke Co., Inter-Southern Bldg., organized with Paul Winn, Pres.; P. H. Hutchinson, Sec. Treas., has 20,000 acres under development; daily output 20 cars; machinery all purchased.\*

Mo., Moundville—Lavery Coal Co. incorporated by A. G. Lavery, Lois F. Hardy and others.

Va., Alexandria—Benedict Coal Corp. increased capital from \$300,000 to \$400,000.

Va., Pennington Gap—Carolina Coal Corp., capital \$60,000, chartered with J. N. Moore, Pres.; J. B. Edmondson, Sec.

W. Va., Huntington—L. Epperly, Gen. Mgr. of the Justis Collins interests in West Virginia, is preparing to install modern washery at its Winding Gulf Colliery, mine No. 2.

W. Va., Mason City—Consolidation Coal

Co., Continental Bldg., Baltimore, Md., reported to sink mines in 25,000 acres coal land, Mason County.

W. Va., Morgantown—Walkersville & Southern Coal Co., incorporated by A. M. Slater and others.

W. Va., Philippi—Bar-Jay Coal Co. has recently obtained additional coal property; plans increasing output.

W. Va., Wheeling—Rowmont Coal Mining Co., capital \$50,000, incorporated by Geo. D. Rowland, Fred H. Brinkman, A. E. Bryant, all Riley Law Bldg.

W. Va., Williamson—R. L. Scott of the Stone-Scott Coal Co., Bethlehem Bldg., Fairmont, and one of the organizers of the Fairwayne Coal Corp. of New York, interested in the purchase of 3000 acres of coal land in Mingo County by the Fairwayne Coal Corp.; extensive development is planned.

### Concrete and Cement Plants

Md., Baltimore—The Baltimore Concrete Products Co., Carter Benson, Mgr., Kate Ave. and Western Maryland Ry., will erect plant addition, 32x80-ft., probably use for storage.

Md., Baltimore—Superior Block Co., 1218 John St., capital \$50,000, incorporated by John D. Robinson, John Durazzo and others; manufacture concrete blocks, etc.

Mo., St. Louis—Missouri Portland Cement Co., H. L. Block, Pres., advises: "The present improvement to plant is the installation of two or more kilns, increasing production of wet process cement to a minimum of 6000 bbls. per day; increased capital from \$6,000,000 to \$9,000,000.\*"

Okl., Oklahoma City—Southern Rock Asphalt Co., capital \$100,000, incorporated by J. J. Harden, R. D. Farmer, 330 E. 14th St., and Wm. Fleming, Jr., Pittsburgh.

Okl., Watonga—The Atlas Portland Cement Plaster Co. has acquired 689 acres in sections Nos. 22 and 27; will install rock crushing plant; construction begun; office Independence, Kansas.

W. Va., Bluefield—Shearman Concrete Pipe Co., Burwell Bldg., Knoxville, Tenn., reported contemplates establishing plant.

### Cotton Compress and Gins

Tenn., Madisonville—E. O. Luther has purchased and will install additional machinery; will double capacity of plant.

Tex., Greenville—C. B. Jones and A. F. Richter reported to construct \$30,000 cotton gin.

Tex., Robert Lee—Robert Lee Gin Co., capital \$12,000, incorporated by W. B. Cobb, F. R. McDonald and others.

Tex., Taylor—Taylor Cotton Farmers' Assn. interested in erection of cotton gin.

### Cottonseed-Oil Mills

Tex., Brenham—Brenham Cotton Oil Manufacturing Co., capital \$100,000, incorporated by T. A. Low, J. G. Giddings and others.

### Drainage and Irrigation

Fla., Tallahassee—Everglades Drainage District Commrs. rejected all bids for deepening and widening the North New canal, from the New river near Fort Lauderdale to the north boundary of Broward County.\*

Tex., Edinburg—Hidalgo County Water Improvement Dist. No. 3 has plans for construction of mains, lateral open ditches and tile drains; estimated cost \$50,000; E. M. Card, Engr., McAllen, Tex.

Tex., Sierra Blanca—Directors of the Huds-

peth County Conservation and Reclamation Dist. No. 1 let contract to Lee Moor Contracting Co., Two Republics Bldg., El Paso, Tex., at \$30,000, for constructing 3½ mi. main distribution canal; work was started on 5½ mi. section by Venter & Davis; these canals will link up system of main canals, 35 mi. long, and will be completed by April 1 for Railroad Comm. for authority to sell \$35,000 Co. a 2-yr. extension of franchise.

### Electric Light and Power Plants

Ala., Florence—Alabama Power Co., Thos. W. Martin, Pres., Brown-Marx Bldg., Birmingham, acquired property of Sheffield Co., including street-car lines, electric lines, large tracts of land; will operate.

Fla., Daytona—S. A. Lynch Enterprise Corp., W. R. Lynch, will install white way in Daytona Highlands.

Fla., Jacksonville—Details under Land Development.

Fla., Lakeland—Details under Land Development.

Fla., Lake Wales—City reported as contemplating improvements to light and water systems. Address City Clk.

Fla., Orlando—City, Mayor Giles, will have white way installed by Utilities Comsn. along Orange Ave.\*

Fla., Palmetto—City Council let contract to Florida Electric Supply Co., 112 S. Franklin St., Tampa, for furnishing white-way posts and fixtures, to Scott Electric Co., Palmetto, for installation of lighting system; Kirby & Webb, Engrs., Bradenton, will supervise work.

Fla., Pensacola—Southeastern Power & Light Co., subsidiary of Alabama Power Co., Thos. W. Martin, Pres., Brown-Marx Bldg., Birmingham, Ala., reported to be considering purchase of street railway, light and power properties of Pensacola Electric Co. and Escambia Light and Power Co.

Fla., South Jacksonville—Details under Land Development.

Fla., Tampa—Details under Land Development.

Fla., Winter Haven—Details under Land Development.

Ga., Austell—City, John W. Barnes, Mayor, contemplates improving lighting system.

Ga., Griffin—Hydro-Electric Co. reported as contemplating purchase of plant and properties of Towaliga Falls Power Co. of Griffin; will issue \$750,000 first mortgage bonds.

La., Jonesville—Details under Water Works.

La., Mansura—Details under Water Works.

Miss., Natchez—Gloster Lumber Co. reported to be investigating possibilities of establishing power plant on Homochitto River.

Mo., Poplar Bluff—W. H. Meredith has applied for permit to construct hydro-electric dam on Black River near Poplar Bluff; Randolph-Perkins Engineering Co., Engrs., 38 S. Dearborn St., Chicago, Ill.\*

N. C., Greensboro—North Carolina Public Service Co. has acquired 3½-acre site near water plant and will erect sub-station to cost approximately \$40,000.

N. C. Sprucepine—Sprucepine Electric Co. organized to take over electric plant owned by The Harris Clay; no developments contemplated.

N. C., Winston-Salem—Details under Land Development.

Tenn., Huntingdon—City voted to sell municipal light and water plant. Address The Mayor.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tenn., Memphis—Details under Land Development.

Tenn., Memphis—Memphis Power & Light Co., 12 S. Second St., reported to have applied to Public Service Commsn. for permission to issue \$1,000,000 in bonds for improvements, including installation of 20,000-kw. turbine.

Tex., Dallas—Details under Land Development.

Tex., New Braunfels—E. H. Kifer, V. P. and Gen. Mgr., San Antonio Public Service Co., 201 N. St. Mary's St., San Antonio, advises Comal Power Co. has acquired land, right of way and water facilities for proposed steam power plant; date of construction work not decided.

Tex., Waco—Details under Land Development.

Va., Bristol—Clinchfield Power Corp., \$5,000,000 preferred capital, incorporated with N. W. Roberts, Pres., West Orange, N. J.; Warren P. Eston, Sec., East Orange, N. J.; generate and supply electricity Virginia and Tennessee.

Va., Brookneal—Ira Vaughan, Halifax, Va., has acquired Brookneal Light & Power Co.'s plant; contemplates improvements and extensions.\*

Va., Richmond—Details under Land Development.

W. Va., Bluefield—Appalachian Power Co. reported to install white-way lighting system on Bland St.

W. Va., Charleston—American Gas and Electric Co., 30 Church St., New York, reported to contemplate absorption of Virginian Power Co., operating electric generating plant at Cabin Creek Junction.

### Fertilizer Plants

Md., Elkton—Elkton Supply Co., capital \$50,000, incorporated by Henry L. Constable, Augustine B. Walmsley and others.

### Flour, Feed and Meal Mills

La., Cedar Grove—Frank Davis and associates, operators of Marshall Mill and Elevator Co., Marshall, Tex., has site and will erect \$500,000 mill and elevator plant; concrete and steel; with storage capacity of from 500,000 to 600,000 bu. and handling capacity of 1000 bu. grain every 12 minutes and loading capacity of 75 cars daily; will also install chop and meal mill and storage house with capacity of 150 carloads of hay and other similar feeds; plant will be known as Shreveport Mill and Elevator Co.

Tex., Panhandle—Panhandle Milling Co., capital \$150,000, incorporated by J. P. Burrus, Charles Newman, Gibson Caldwell.

W. Va., Charles Town—B. F. LaFollette & Co. have leased grain elevator of Reed Grain and Milling Co. at Gaylord.

### Foundry and Machine Plants

Ky., Paducah—Details under Railway Shops, Terminals, Roundhouses, etc.

Tenn., Chattanooga—Somerville Iron Works, North Chattanooga, contemplates expending \$150,000 on plant additions.

### Gas and Oil Enterprises

Ark., Fayetteville—Northwest Oil and Gas Co., W. J. Lewis, Pres., applied to Arkansas Railroad Comms. for authority to sell \$35,000 worth of stock.

Fla., Deland—City granted to Deland Gas Co. a 2-yr. extension of franchise.

Fla., Ocala—Halvan Oil Co., capital \$20,000, incorporated with R. S. Hall, Pres.; R. L. Van Osten, Sec.

Fla., Tampa—Details under Land Development.

La., Baton Rouge—Standard Oil Co. of Louisiana, Raymond Bldg., has 10-acre site and will erect paraffin plant.

La., Bastrop—Union Gas Co. reported to proceed with construction of plant.

La., Swartz—Chester Carbon Co. reported to proceed with completion of plant.

Md., Baltimore—Union Gas and Carbon Co., 626 Equitable Bldg., chartered by H. Preston Morris, Francis M. Brown and others.

Okla., Elk City—M and M Oil Co. increased capital from \$20,000 to \$30,000.

Okla., Holdenville—Kingwood Oil Co. reported to construct 12-in. gas main into Holdenville.

Okla., Medford—Hoy Oil and Gas Co., capital \$15,000, incorporated by R. J. Early and E. S. Henry and others.

Okla., Tulsa—Osage Oil Corporation, capital \$100,000, incorporated by A. G. Oliphant, E. M. Myers, 44 E. 17th St., and others.

Okla., Wetumka—Phillips Petroleum Co., Bartlesville, H. E. Koopman, Sec.-Treas., advises they are erecting gasoline plant; plant is not being built by outside contractors; H. Riney in charge of construction; Clark Bros. 165 h.p. gas engines are being used as power units; also Ingersoll-Rand compressors; building being furnished by Muskogee Iron Works, Frankfort and Spauld Sts., Muskogee; material has been ordered for plant.\*

Tex., Beaumont—Magnolia Gas Products Co. will install additional machinery at plant, cost \$47,000.

Tex., Brownwood—Patterson Oil Refinery will rebuild plant burned at loss of \$25,000.

Tex., Fort Worth—Stine Drilling Co. incorporated by W. J. Stine, A. P. Turner and others.

Tex., Fort Worth—Allen Oil and Gas Corp., capital \$35,000, incorporated by Charles T. Allen, D. H. J. Graham and L. M. White, 920 S. Lake St.

Tex., Houston—Suburban Gas and Refining Co. incorporated by G. E. Sanders, B. A. Kunz and others.

Tex., Liberty—Mills Bennett of Houston has acquired interest in Winfre Oil Co.; will develop 5½ acre lease.

Tex., San Antonio—Southern Natural Gas Co., Maverick Bldg., contracted with Hope Engineering & Supply Co., Farmers Bank Bldg., Pittsburgh, Pa., to lay 38 miles of gas line from new field to southern terminus of company's present main in McMullen County; cost \$400,000.\*

Tex., San Antonio—Jim Harper of Eagle Drilling Co. has contract for drilling well in Jim Hogg County for Russell & Hoffman.

Tex., San Antonio—Russell Oil Co., capital \$20,000, incorporated by R. R. Russell, Dr. D. A. Russell and others.

Tex., Shamrock—Shamrock Gas Co., capital \$12,000, incorporated by W. S. Pendleton, A. N. Holmes and others.

Tex., Sherman—F-H-E Oil Co., capital \$10,000, incorporated by W. H. Fleming, R. A. Elliott and others.

Tex., Slaton—H. A. Heller, Sam C. Arnett and J. O. Jones, all of Lubbock, will organize company; have applied for gas franchise.

Tex., Wichita Falls—R. T. Couch Oil Corp., capital \$10,000, incorporated by R. T. Couch, J. W. Beckwith and others.

W. Va., Charleston—South Penn Oil Co., Union Trust Bldg., reported to construct 5-in. gas and water line in Big Sandy District; reported to have leased 2536 acres of land on

Cabin Creek and 369 acres of land on Poca River.

W. Va., Hundred—Brown's Gas and Oil Co., capital \$50,000, incorporated by Ralph H. Watkins and others.

### Ice and Cold-Storage Plants

Fla., Perry—Perry Electric Co., J. D. Scruggs, Mgr., contemplates building cold-storage plant near or adjoining the present structure.

Md., Cumberland—The City Ice & Fuel Co., J. M. Blum, Sec., 6611 Euclid Ave., Cleveland, Ohio, advises: Alterations are being made at plant in Cumberland; have no plans at present for new plants in any Southern cities.\*

Md., Baltimore—Independent Ice Co., 315 N. Holliday St., increased capital from \$200,000 to \$400,000.

Md., Salisbury—The Salisbury Ice Co. has under construction a new unit to plant in East Salisbury, 63x75 ft., fireproof, brick and steel construction, storage capacity of 4000 tons, increasing storage space of plant to 22,000 tons; also having icing station in conjunction with plant.

Okla., Oklahoma City—New State Ice Co., 2 W. Third St., reported to erect \$50,000 ice plant, including 40-ton capacity raw-water ice plant, ice storage room and 150 h.p. steam power plant; construction by day labor; Ophuls & Hill, Engrs., 112 West Forty-second St., New York City; equipment to be purchased by the Engineers.

Tex., Denton—The Boren Stewart Co., 1026 Young St., Dallas, Tex., will remodel building and install cold storage plant.

Tex., Victoria—R. E. Hill contemplates building cold storage plant.

Tex., Yoakum—Texas Wholesale Grocery Co. will erect \$40,000 cold storage plant.

### Iron and Steel Plants

Ala., Woodward—The Woodward Iron Co., Frank H. Crockard, Pres., reported to have let contract to The Koppers Co., Pittsburgh, Pa., to rebuild forty of its by-product coke ovens.

### Land Development

D. C., Washington—Details under Bridges, Culverts, Viaducts.

Fla., Arcadia—Kenneth McNeil, Pres. McNeil Coal Co., Bridgeport, Conn., has acquired tract of land and will develop.

Fla., Bagdad—Peter Rosasco and Fritz Hentzleman contemplate establishing farming colony.

Fla., Boynton—Addison Mizner, H. T. Smith and associates have acquired tract of land in Arden Park and will develop; will widen Australian Blvd., etc.

Fla., Coconut Grove—Sunshine Fruits Co. has acquired 30-acre grove and will develop for Sunshine Park, subdivision; construct boulevards, etc.

Fla., Eustis—Wm. R. Quayle has acquired tract of land on Magnolia Ave.

Fla., Fort Pierce—Erie Land & Investment Co., capital \$10,000, incorporated with K. J. L. Kellems, Pres.; Gladys L. Kellems, Sec.

Fla., Gainesville—Eaton-Hoymans Realty Co., capital \$10,000, incorporated with E. L. Eaton, Pres.; Lonnie Hoymans, Sec.

Fla., Groveland—Manfred Jacobson of Chicago has acquired 17-acre tract of land and will develop for nursery.

Fla., Haines City—W. T. Brooks, L. B. McLeod and H. W. Bledson will develop twin subdivisions on Polk County Rd. and Lake Tracy; will construct roads, erect buildings, etc.



Fla., Jacksonville—Brywill Realty Co., capital \$250,000, incorporated with James Y. Wilson, Pres., Clark Bldg.; A. E. Dempster, Sec.

Fla., Jacksonville—T. P. Denham of Atlantic National Bank and Charles E. Pelot acquired approximately 100 acres of land and will develop.

Fla., Jacksonville—First Street Realty Co. incorporated with Sarah A. Gardiner, Pres.; J. J. Roumilat, Sec., 3324 Oak St.

Fla., Jacksonville—Palma Sola Gardens Co., capital \$10,000, incorporated with Gary Alexander, Pres.; Frank H. Elmore, Sec., Bisbee Bldg.

Fla., Jacksonville—George H. and Lawrence W. Howard, 941 Oak St., have acquired 75 acres of land on San Jose Blvd. and will develop for subdivision; will construct roads and streets, install water, sewers, telephones, electric lights, etc.

Fla., Jacksonville—Sewell and Newton have acquired 62 acres of land on Atlantic Beach Blvd. and will develop.

Fla., Jacksonville—N. D. Suttles Co., 300 W. Forsyth St., reported to have acquired tract of 76,000 acres of land located between Crest View and Valparaiso on Cherokee Bay containing thousands of acres of orange and mulberry groves and timber.

Fla., Jacksonville—Charles A. Brown, Jr., 1934 Oak St., is developing Bowden Park subdivision.

Fla., Jacksonville—R. L. Chamberlain of Grand Rapids, Mich., has acquired through Buck & Buck, 227 W. Forsyth St., tract of land containing 1000 ft. of ocean frontage south of Amelia Beach and will develop.

Fla., Lakeland—J. T. Horney, 10 Church St., Asheville, N. C., is developing subdivision on Lake Hollingsworth; will have lake fronts dredged, construct paved boulevards; build artificial island several hundred ft. from shore with causeway and pavilion; install water, sewers, electric lights, etc.

Fla., Lakeland—Gulf Coast Land Co., capital \$300,000, incorporated with H. Memminger Pres.; V. M. Miller, Sec.

Fla., Lakeland—Tom Sheridan Realty Co., capital \$70,000, incorporated with T. F. Sheridan, Pres.; G. K. Hudgings, Sec.

Fla., Lake Wales—Florida Fruits, Inc., capital \$10,000, incorporated with M. M. Ebert, Pres.; M. Roberts, Sec.

Fla., Leesburg—W. E. Harkness, City Clk., has acquired for client 30 acres of land; will develop for subdivision.

Fla., Leesburg—C. R. Sims and W. A. MacKenzie have acquired one 22 acre and 40 acre tracts of land and will develop for subdivisions; W. F. Francisco, Engr.

Fla., Leesburg—Business Men's Real Estate Assn. has acquired for client tract of land on Lake Weir and Lake Sunshine and will develop for subdivision.

Fla., Leesburg—H. B. Kane has secured for client tract of 62 acres and will develop for subdivision.

Fla., Miami—Wayne E. Stiles, Golf Archt., is developing Key Largo Club's properties; will construct 18-hole golf course covering approximately 100 acres.

Fla., Miami—E. T. Stephens Co., 301 Calumet Bldg., has acquired 15 acre tract and will develop for subdivision.

Fla., Miami Beach—H. S. Bastian Properties, Inc., First National Bank Bldg., chartered with H. S. Bastian, Pres.; Ella R. Bastian, Sec.

Fla., Miami—R. G. Holgate, 1023 S. Miami Ave., has acquired 1318 acres of land.

Fla., Miami—V. Earl Irons of Irons Land & Development Co. acquired tract of land having a 2-mile canal frontage.

Fla., Miami—Mitchell Wolfson, 239 N. E. 14th Terr., acquired 100 acres of land on Palm Ave. and will develop.

Fla., Miami—Thomas J. Hawkins acquired 10 acres of land on W. Flagler St.

Fla., Miami—Buena Vista Co., capital \$15,000, incorporated with W. H. Bailey, Pres.; Mary M. Montgomery, Sec., 1303 N. W. Fifth St.

Fla., Miami—H. Leavitt, 127 N. E. Fifth St., has acquired 436 acres of land on Tamiami Trail.

Fla., Miami—R. M. McNeel Properties, Inc., capital \$50,000, incorporated with R. M. McNeel, Pres.; W. V. Parks, Sec.

Fla., Miami—Rohrer Development Corp., capital \$100,000, incorporated with S. B. Rohrer, Pres.; Sam R. Becker, Sec.

Fla., Miami—Harkins Realty Co., Inc., capital \$50,000, incorporated with M. Harkins, Pres., 44 S. W. Seventh St.; B. Silverman, Sec.

Fla., Miami—Dupree Co., Inc., capital \$50,000, incorporated with Dwight O. Nay, Pres., 302 N. E. 22nd St.; Thos. O. H. Dupree, Sec.

Fla., Miami—El-Kumita Co., capital \$25,000, incorporated with J. Ralph Tatum, Pres., 304 N. E. 20th St.; W. Theron Miller, Sec., 528 Euclid Ave., Miami Beach.

Fla., Miami—Wm. Lowe, 90 N. E. 22nd St., has acquired 20 acres of land near Kendall.

Fla., Miami—Joseph Thomas, 343 S. W. Fifth St., has acquired 30 acres of land near Kendall.

Fla., Miami—Atlantic Properties, Inc., capital \$50,000, incorporated with P. J. Prevatt, Pres.; E. A. Watson, Sec., Y. M. C. A.

Fla., Miami—Carter Security and Land Co., 169 Flagler St. capital \$100,000, incorporated with Wm. J. Carter, Pres.; Ernest W. Carter, Sec.

Fla., Miami—Royal Land Co., capital \$10,000, incorporated with W. Densil Wiltner, Pres.; Harold G. Sweet, Sec.

Fla., Miami—Germania Realty Co., capital \$10,000, incorporated with Nathan Roemer, Pres.; Joseph Ulmer, Sec.

Fla., Miami—Regent Development Co., capital \$25,000, incorporated with Henry Hamblin, Pres., 221 N. E. Fifth St.; Grace H. Landis, Sec.

Fla., Miami—City, F. H. Wharton, Mgr., votes Jan. 29 on \$400,000 park bonds.\*

Fla., Miami—Miami and Northern Realty Co., capital \$10,000, incorporated with A. H. Bellat, Pres.; Fred S. Minor, Sec., N. E. 61st St.

Fla., Miami—Atlantic Holding Co., capital \$500,000, incorporated with C. L. Brown, Pres.; C. H. Ward, Sec., 45 N. E. First Ave.

Fla., Miami—Gracemount Syndicate, John P. Grace, 45 Broad St., Charleston, S. C. Pres., has acquired 1000 acres of land north of Miami and will develop; Watson & Garriss, Engrs., Hill Bldg., have contract for detailed survey of tract and laying out 60 ft. highways entirely around each 40 acre tract.

Fla., Miami—A. Louis & Co., Inc., capital \$10,000, incorporated with A. Louis, Pres., 158 W. Flagler St., Hellman, Sec.

Fla., Miami—Florida Fiscal Co. \$10,000, incorporated with John C. Gramling, Pres., 281 N. E. 20th St., J. M. Walker, Sec.

Fla., Miami—Miami Fiscal Co., capital \$10,000, incorporated with J. M. Walker, Pres.; K. Mozley, Sec., Y. M. C. A.

Fla., Miami—Phillips Properties, Inc., cap-

ital \$10,000, incorporated with A. L. Phillips, Pres.; Edna P. Coal, Sec.

Fla., Miami—Biltmore Park Co., capital \$25,000, incorporated with R. E. Coogan, Pres., 1542 N. E. Second St., J. B. Grison, Sec.

Fla., Miami—Roberts & Gretner, 1700 N. Bay Shore Drive, have acquired 25 acres on N. W. Seventh St., and will develop.

Fla., Miami—Webb Jay, Biscayne Heights, acquired tract of land on N. Bayshore Drive.

Fla., Miami—Bloomfield Realty Co., incorporated with Louis O. Bloomfield, Pres.; George J. Bays, Sec.

Fla., Ocala—W. B. Johnson, Pres. Clark-Day Johnson Co., has acquired 1274 acres of land and will develop.

Fla., Ocala—Buick Realty Co. is proceeding with development of Buick City subdivision; Dixon & Jewell, Contrs., Asheville, N. C., for ploughing, scraping and grading 6 miles of lake front; other development work includes 6000 ft. of sidewalk; 100 acres of clearance; 10 miles of roads; 3 miles of graded streets.\*

Fla., Okeechobee—Alfred H. Wagg and M. Morthenbaum, Pr., West Palm Beach, acquired 15,000 acres of land and will develop.

Fla., Orlando—Hugh Baird, Courthouse, Columbus, Ga., and J. L. Couch, Orlando, reported to have acquired townsite of Bithlo, located 18 miles east of Orlando on Cheney highway, consisting of 2000 acres and will develop.

Fla., Orlando—C. A. Roberfts, 218 S. Orange Ave., has acquired several tracts of land and will develop for subdivision and citrus groves.

Fla., Orlando—Gilbert-McGriff Realty Co., capital \$10,000, incorporated with L. C. Gilbert, Pres., 1001 E. Washington St.; O. E. McGriff, Sec.

Fla., Ormond—A. P. Anthony, 1609 Dak St., Jacksonville, has acquired tract of land and will develop.

Fla., Pensacola—J. E. Settles & Co., Jacksonville, acquired 40,000 acres of land in Walton and Okaloosa Counties; will develop and colonize.

Fla., Pensacola—West Florida Investment Co., capital \$50,000, incorporated with A. C. Wilson, Pres.; C. J. Brown, Sec.

Fla., Plant City—Plant Valley Development Corp., capital \$100,000, incorporated with H. G. Reese, Pres.; J. A. Burney, Sec.

Fla., Sanford—Fort Mellon Development Co. acquired 85 acres of land south of Franklin St. and will develop for subdivision.

Fla., Sanford—Sanford Hotel Realty Co. incorporated by Mayor Forrest Lake, A. E. Key and others; have acquired tract of land along lake front and will develop.

Fla., Sarasota—Adair Realty and Trust Co., Healey Bldg., Atlanta, Ga., is developing 500 acres of land for subdivision.

Fla., Sarasota—San Remo Development Co., capital \$100,000, incorporated with Michael F. Schiavone, Pres., 10 S. La Salle St.; Isadore Becker, Sec., both Chicago, Ill.

Fla., Sarasota—Gulf Coast Realtors have completed plans for improvement of tract of land along Whintaker Bayou; will expend \$50,000 in fills, bulkheading and boulevards.

Fla., Sarasota—T. A. Azar has let contract for \$100,000 improvements to grove subdivision south of Sarasota.

Fla., Sarasota—E. Beeler has completed plans for development of Enchanted Isles subdivision; has let contract for \$100,000 improvements, including dredging, filling in, constructing sea wall, building boulevards and bridges, etc.

Fla., Sarasota—Walter Shepard, Narrow Lane Rd., Montgomery, Ala., acquired 43 acres of land and will develop for subdivision.

Fla., Sarasota—C. L. Richardson, Jr., Box 1538, is developing 40 acres for subdivision; will install water works, electric lights, hard surfaced streets, etc. (See Machinery Wanted—Pipe, Galvanized Iron.)

Fla., Sebring—Martini and Coleman will develop 10 acres of land for subdivision.

Fla., St. Petersburg—Tropical Shores Realty Co., capital \$10,000, incorporated with Kibbee Crump, Pres., 701 Central St.; R. Pingham, Sec.

Fla., St. Petersburg—L. C. Wick of Pittsburgh, Pa., M. W. Goodell of Binghamton, N. Y., and George Young, 401 Fourth St. S., of St. Petersburg, will expend \$1,500,000 on development of 1600 acres of land on Tampa Bay north of Gandy Bridge; contract for development of property was let to Rufus R. Wilson, Pres., Florida Real Estate Bureau, St. Petersburg and New York; will increase holding by filling in about 1000 acres; construct boulevards, 18-hole golf course, etc.

Fla., St. Petersburg—Bay View Investment Co., T. E. Leeper, Pres., is negotiating with northern capitalists for development of 8000 acres of land in Lake Butler district.

Fla., South Jacksonville—City will probably vote March 4 on \$149,000 bonds for parks and paving; \$88,000 for fire protection and extension of water works, \$56,000 for electric lights, \$10,000 for fire truck and additional fire fighting equipment, \$72,000 for extension of sewers, \$25,000 for development of municipal docks; E. Jackson Butler, City Clk.

Fla., Stuart—Golden Gate Development Co., C. W. Bingham, Pres., has acquired approximately 340 acres of land.

Fla., Tampa—Carl Melborn of Melborn & Long is developing Riverside Estates subdivision.

Fla., Tampa—City Comsn. voted to purchase about 17 acres of land north of Florabaska between Nebraska and Florida Aves. and will develop for city park.

Fla., Tampa—Paul Gilmore, Bayshore Blvd., acquired 40 acres of land on Gadsden Rd. and will develop Tropical Pines, subdivision.

Fla., Tampa—A. J. Simms, Citrus Exchange Bldg., developer of New Suburbs Beautiful and Parland Estate; will develop Morning Side on Morrison Ave; will construct paved streets, install gas, water, electricity, etc.

Fla., Tampa—Riverview Land Co., capital \$75,000, incorporated with E. W. Drummond, Pres.; L. F. Stenerie, Sec.

Fla., Tampa—Bridge City Realty Co., capital \$25,000, incorporated with W. D. Bush, Pres., 512 Giddens Ave.; J. H. Hackney, Sec.

Fla., Tampa—LaBelle Sales and Development Co., capital \$15,000, incorporated with John C. Kelly, Jr., Pres.; A. T. Miller, Sec.

Fla., Tampa—Warner—Tedder Realty Co., Inc., 111 Zack St., lately noted incorporated with \$25,000 capital, George H. Cary, Pres.; plans developing 649 acres of land for subdivision.

Fla., Titusville—Lamon & Watson of Miami have acquired 50,000 acres of land bordering on St. John's River containing muck and hammock land and 12,000 acres of pine timber; will combine this acreage with an additional tract of land and fence, drain and subdivide river frontage and highway frontage and drain the hammock land; will expend about \$750,000 in development.

Fla., Titusville—F. J. Anderson of West Palm Beach acquired ocean front property and will develop.

Fla., West Palm Beach—Binion & Brown, Inc., capital \$50,000, incorporated with D. G. Binion, Pres.; Frank H. Brown, Sec.

Fla., West Palm Beach—Gomez Estates, Inc., chartered with George D. Grundy, Pres.; Peter F. Lebkuecher, Sec., Bible House, both New York city.

Fla., West Palm Beach—Bickford Realty Co., capital \$15,000, incorporated with Samuel L. Bickford, Pres.; Bert Winters, Sec.

Fla., West Palm Beach—Breen Realty Co., capital \$200,000, incorporated with Wm. J. Breen, Pres.; Evalene H. Breen, Sec.

Fla., Winter Park—R. C. Lasbery has acquired 76 acres of land containing 1700 ft. of lake front property and large acreage of grove.

Fla., Winter Haven—A. H. Leonard will develop 70 acres of land on Lake Howard Blvd. for subdivision; will pave streets and sidewalks, install electric lights, water system and telephones; expend \$55,000; M. D. Mendenhall, Archt., Lakeland.\*

Ga., Valdosta—Lilly-Mackey-Turner Co., capital \$75,000, incorporated by Paul Lilly, G. B. Turner, R. G. Deckerson.

Ga., Valdosta—Georgia—Florida Real Estate Co., capital \$50,000, incorporated by B. B. Saunders, W. E. French and others.

Ky., Ashland—Justice Land Co., capital \$75,000, incorporated by John J. Justice, H. C. Justice and others.

Ky., Hopkinsville—Davis Realty Co., capital \$25,000, incorporated by Odie Davis, Arthur Davis and others.

Ky., Louisville—Shipp Realty Co., capital \$10,000, incorporated by F. W. Golden, W. L. Byrd and others.

Ky., Pineville—Board of Control of Clear Creek Mountain Springs Encampment, Dr. L. C. Kelly, Pres., contemplates expenditure of \$1,000,000 for development of Baptist Encampment; included in the plans are construction of 2 lakes and powerhouse to be operated by water power, construction of roads and improvements to grounds, installing water and system, purchase of additional land, etc.\*

Ky., Stanford—Stanford Realty Co., incorporated by S. T. Harris, J. S. Hocker and others.

La., Baton Rouge—Northdale Co., Inc., capital \$18,000, incorporated with Eugene Cazedessus, Pres.; A. F. Cazedessus, Sec.-Treas., Wilck Bldg.

La., Baton Rouge—City will vote in Feb. on \$200,000 bonds for park improvements; included in plans for development are construction of driveways, building zoo; construct lake covering 50 acres; erect bathhouses and other structures.

La., New Iberia—F. E. Delahoussay has leased approximately 1500 acres of land in St. Martin Parish.

La., New Orleans—Dublin Co., Inc., capital \$50,000, incorporated with Fred Thomander, Pres., 612 Carondelet St.; Ruth Rapier, Sec., 721 Carondelet Bldg.

Md., Baltimore—Curtis Bay Syndicate, Inc., 1000 Calvert Bldg., capital \$100,000, incorporated by Timothy J. Hooper, Edwin H. Brownley and others.

Miss., Brookhaven—Brookhaven Golf and Country Club incorporated with \$10,000 capital by A. B. Furlow, Frank Fellows, O. H. Hartman and others; will purchase site and establish golf course and clubhouse.

Miss., Clarksdale—Mrs. M. M. Darden has acquired 1600 acres of land at Bobo.

Miss., Wiggins—Pioneer Fruit Co. will plant 100 additional acres in peach trees.

Mo., Kansas City—Enterprise Real Estate, Rental & Mortgage Co. incorporated by Stanley Byrd, 5363 Independence Ave.; Roy W. Newell and others.

Mo., St. Louis—Ferguson Realty Co., Ferguson, acquired tract of land and will develop for subdivision.

Mo., St. Louis—M. A. Rust & Sons Realty Co., 816 Chestnut St., capital \$25,000, incorporated by M. A. Rust, M. L. Rust and others.

Mo., St. Louis—Meier & Comfort, Inc., capital \$20,000, incorporated by Norman B. Comfort, 6417 Maple St.; John M. Holmes, 5338 Enright St. and others.

Mo., St. Louis—Hellweg Realty Corp., capital \$10,000, incorporated by F. L. Hellweg, Arthur L. Becker, 3851 McDonald St., and others.

Mo., St. Louis—Eighty Hundred Realty Co. incorporated by Lloyd T. Watkins, Earl Watkins, 7279 Maryland Ave., both of University City, and others.

Mo., Springfield—Acacia Club of Kansas City has acquired 130 acre tract of land on Lake Taneycomo near Hollister and will expend \$50,000 for buildings, golf links, tennis courts, docks and bathhouses.

N. C., Asheville—Kanuga, Inc., capital \$100,000, incorporated by C. P. Ryman, Thos. A. Jones, Jr., Legal Bldg., and others.

N. C., Burlington—Moore Land Co., capital \$500,000, incorporated by W. M. Baker, Burlington; M. H. Moore, 318 Orange St., Wilmington, and others.

N. C., High Point—S. C. Clark, developer of Country Club property, has retained E. S. Draper, Landscape Archt. and Engr., 11 E. Fifth St., Charlotte, to plan community development on 800-acres on Centennial Ave.; including parks and playgrounds, municipal golf course and others.

N. C., Greensboro—City, P. C. Painter, Mgr., will probably vote in the spring on bonds for developing 400 acres for parks.

N. C., Winston-Salem—Forsyth Realty Co., capital \$20,000, incorporated by J. H. Turner, City Market; John H. Smith and E. C. Hill.

N. C., Winston-Salem—Greenway Place Development Co., capital \$100,000, incorporated by H. G. Chatham, 106 Cherry St., R. H. Ogburn and others; has acquired 115 acres of land on Patterson Ave. and will develop for subdivision; will construct roads and streets; install water, sewer, electric lights, etc.; E. S. Draper, Landscape Archt., 11 E. Fifth St., Charlotte.

Okla., Davis—Mort Woods, Wirt Franklin and others interested in establishment of public park at Turners Falls.

Okla., Tulsa—Woodland Park Development Co., capital \$200,000, incorporated by John W. McBride, Cyrus S. Avery, 1601 S. Owasso St., and others.

S. C., Charleston—George Franklin Wiley of New York has acquired Folly Island and will develop for seashore resort.

S. C., Georgetown—Georgetown Farm Land & Home Seekers Co., W. D. Morgan, Pres., has surrendered charter instead of incorporating as lately noted.

S. C., Greenville—B. D. Boldsmith Co., capital \$10,000, incorporated with B. D. Goldsmith, Pres., 412 S. Main St., Mattie G. Farmer, Sec.

Tenn., Memphis—Foster & Stevenson, Central Bank Bldg., have acquired tract of land and will develop for subdivision; will con-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



struct streets, install water, sewer, electric lights, etc.

Texas—Del Carmen Land Corp., 206 Scott Bldg., Bluefield, W. Va., has 8320 acres of land in Brewster County; plans for development not completed.\*

Tex., Alvin—James G. Collins and T. G. Markley of Magnolia Fig Nurseries, Inc., Houston, considering planting additional fig trees and construction of \$100,000 preserving plant.

Tex., Dallas—Butler Realty Co., S. W. Life Bldg., acquired 10 acres of land in Northeast Dallas and will develop for subdivision; will construct bridge across Turtle Creek, construct roads and streets, install water, sewer, electric lights, etc.

Tex., Nazareth—S. J. Taylor has acquired 1000 acres of land in Jackson County.

Tex., Port Arthur—Port Acres Development Co. incorporated by C. L. Moon, A. R. Autrey, 422 Deutscher Bldg.; J. L. Dunn.

Tex., Fort Worth—City Comsn. will expend \$50,000 in development of Burnett Park at West Seventh and Burnett Sts.

Tex., Waco—Foscoe & Rogers, 601 Amicable Bldg., will develop 45 acres of land; will lay sewers, grade and gravel streets; build electric line, lay water pipes, etc.

Va., Clifton Forge—Atlantic Realty Co., capital \$50,000, incorporated with J. M. Emmett, Pres.; L. W. Farrier, Sec.

Va., Richmond—Richmond Beach Corp., J. Tyler Thompson, Sec., Travellers Bldg., contemplates development of summer resort on Fappahannock River; will erect number of buildings, install electric lights and sewerage.

Va., Roanoke—Church Avenue Realty Corp., capital \$100,000, incorporated with T. E. Jamison, Pres.; W. C. Stephenson, Sec., 112 Kirk Ave., W.

W. Va., Elkins—Greenbrier Land Co., capital \$25,000, incorporated by Howard Southerland, Charles S. Robb and others.

### Lumber Enterprises

Ala., Bankston—The Pocahontas Lumber Co. of Corinth, Miss., contemplates establishing planing mill.

Ala., Mobile—Bucks Lumber Co., Inc., capital \$10,000, incorporated by Ed. Gaines, Paul Smith, 300 N. Joachim St., S. P. Gallard.

Fla., Cedar Key—The Standard Lumber Co., main office Live Oak, is building saw mill, planing mill, dry kiln, storage sheds, office commissary and about 35 dwellings; D. H. May in charge of construction.

Fla., Palatka—Browning Lumber Co., capital \$100,000, incorporated with S. S. Browning, Pres.; C. H. Hyde, Sec.

Ga., Savannah—Reynolds & Manley Lumber Co. of Quincy, Fla., capital \$150,000, will be incorporated by H. L. Manley, H. A. Reynolds and others. Company advises: "Will erect new plant, consisting of one band mill, about 50,000 ft. capacity with planing mill and dry kilns in connection, production will be hardwood, cypress and pine lumber; construction of plant to begin immediately."

Ky., Blackey—J. A. Whitaker will develop timber lands on Rockhouse Creek; install mills.

Ky., Cynthiana—The Cynthiana Lumber Co., capital \$30,000, incorporated by T. B. Thomas, J. E. McNeill and others.

Md., Baltimore—The Geo. Helfrich & Sons Co., 1040 W. Baltimore St. have under construction 2-story, 25x90-ft., colonial brick building with concrete footings and basement for display of Curtis millwork.

Md., Baltimore—The Mattingly Lumber Co., Pier 6, Pratt St., capital \$20,000, incorporated by J. G. Mattingly, Albert H. League and others.

Md., Baltimore—J. Matwick & Co., Inc., 725 Munsey Bldg., chartered by Wm. H. Price, Raymond J. Hanley and others.

Mo., Monett—Salzer Lumber Co., Inc., capital \$75,000, chartered by Ed. C. Salzer, Geo. J. Porterfield and others.

Tenn., Chattanooga—A. G. Stivers Lumber Co., 345 E. Main St., increased capital from \$25,000 to \$200,000.

Tenn., Nashville—G. I. Frazier, Fourth and First National Bank Bldg.; R. S. Clark, 1906 Eighteenth Ave. S.; J. R. Williams, 824 N. Second St., and others have incorporated the following companies: The Seminole Stave & Heading Co., capital \$25,000; Interstate Tie & Timber Co., capital \$10,000; Altamont Stave & Lumber Co., capital \$10,000; Frazier & Hunt Co., capital \$25,000; Gray Stave & Lumber Co., capital \$10,000, and Alabama Stave & Lumber Co., capital \$10,000.

### Metal-Working Plants

Okla., Chickasha — DeHart Sheet Metal Works, capital \$15,000, incorporated by E. L. DeHart, James G. Chambliss and others.

Tex., Houston—Western Metal Manufacturing Co. of Texas, capital \$100,000, incorporated by C. W. Webb, 908 Hartman St.; A. L. Wright, H. W. Force.

### Mining

Ark., Little Rock—The Arkansas Mineral Products Co., A. W. Hall, Sec., 120 Prospect St., applied to the Arkansas Railroad Comsn. to sell stock.

Ark., Yellville—Lead—E. O. Owens, A. G. Fippin and others reported to have acquired lease on the Big Buck lead mines; will develop.

Ga., Elberton—Ogelsby Granite Quarries, organized by B. F. Coggins, B. P. Bobo and C. Comolli; have acquired the quarries of the Ogelsby Granite Co. at Ethridge.

Ky., Harlan—The Harlan Limestone Co., capital \$30,000, incorporated by A. D. Miller, J. B. Snyder, S. B. Bruner.

Oklahoma—Zinc and Lead—New Chicago Mines Corp., E. H. Wolff, Pres., Joplin, Mo., has 320 acres under lease in the Oklahoma field, reported to erect additional mill.

S. C., Liberty—Holston Quarry Co. of South Carolina, Knoxville, Tenn., Box 292, has quarry with daily output of 2000 tons.\*

Tex., Llano—Lone Star Granite Co., capital \$60,000, incorporated by Kellus Carter, Geo. D. Ramsey and A. C. Cheim.

Va., Bristol—Liberty Elkhorn Mining Co., capital \$50,000, incorporated with T. H. Morris, Pres.; D. Willey, Sec.

### Miscellaneous Construction

D. C., Washington—Fill — Details under Bridges, Culverts, Viaducts.

Fla., Belleair—Dredging—Town Commrs. have \$300,000 available for dredging wide channel; Earle E. Carley, Mayor.

Fla., Key West—Signal Lights—William W. Demeritt, Supt. of the Seventh Light-house Dist., contemplates erecting five structures for automatic acetylene gas lights in local harbor and its approaches.

Fla., Lakeland—Seawall, etc.—Details under Land Development.

Fla., Miami—Pier—Schrieber & Albury, Chicago, Ill., reported to have purchased Hardies' Casino; plans building \$1,000,000 pier, erect theater and amusement park.

Fla., Miami—Docks, etc.—City, F. H. Wharton, Mgr., vote Jan. 29 on \$400,000 bonds for docks and warehouses and \$50,000 bonds for incinerators.

Fla., Ocala—Water Front Improvements—Details under Land Development.

Fla., Sarasota—Bulkheading—Details under Land Development.

Fla., Sarasota—Seawall—Details under Land Development.

Fla., St. Petersburg—Fill—Details under Land Development.

Fla., St. Petersburg—Terminal—A. D. McFaul, Box 901, and associates, interested in building a \$5,000,000 terminal, have acquired site on the Gulf of Mexico; desires to correspond with contractors and material men.

Fla., South Jacksonville—Docks—Details under Land Development.

Fla., Tampa—Marine Speedway—D. P. Davis Organization, Warner Bldg., has begun dredging of oval speedway in Tampa Bay, to be known as the Davis Marine Speedway, closely paralleling the mainland, will be only 150 ft. from shore; surveys of course provides for width of 200 ft., and depth of 6 ft. below mean low water.

Fla., Tampa—Docks—City Comsn. instructed E. D. Matrin, City Engr., to purchase material and begin construction of 700 ft. of extensions to the present docking facilities at the Tampa Bay Hotel grounds; plans call for driving of double row of piles on which will be built wooden platform connected at intervals by runways.

Ky., Pineville—Lake—Details under Land Development.

La., Baton Rouge—Terminal—Carnegie Steel Co., Pittsburgh, Pa., reported to have leased site with 2000 ft. frontage on river, will probably build terminals, etc.

E. C. Brown, Chief Civil Engr. of the Carnegie Steel Co., Carnegie Bldg., Pittsburgh, advises: "The installation of transshipping facilities at Baton Rouge are not yet decided upon; have option for certain property, but decision as to character and extent of work not yet reached."

La., Baton Rouge—Lake — Details under Land Development.

La., Shreveport—Elevator—Details under Flour, Feed & Meal Mills.

Md., Baltimore—Incinerator—City, Charles H. Osborne, building inspector, has plans for construction of \$100,000 incinerator plant, at Ostend and Russell St., 2-story, brick; to begin work about Feb. 15.\*

Miss., Vicksburg—Dredging—Third Mississippi River Dist. Box 404, receive bids Jan. 27 for dredging. (See Machinery Wanted—Dredging.)

Mo., Springfield — Docks — Details under Land Development.

Okla., Enid—Elevator—W. B. Johnson will erect elevator, frame with iron covering, used as terminal and mixing house; estimated cost \$12,000; H. Ames, Contr. and Engr., Enid, Okla.\*

Tenn., Chattanooga—Tunnel—E. G. Mirrell, Hamilton County Engr., advises: "Preliminary surveys being made for 1000-ft. tunnel through Missionary Ridge; expect to ask Legislature for authority to issue bonds to pay for project; estimated cost \$500,000."\*

Tex., Beaumont—Wharves, etc.—City will vote in February on \$250,000 bonds for wharves and docks; Oille J. Bloyd, City Mgr.\*

Tex., Dallas—Incinerators — City Comsn. has \$15,000 available for the repairs to three municipal incinerator plants; R. A. Wylie, Street Commr.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Edinburg—Levee—Hidalgo County, J. C. Epperson, Judge, will construct levees to control flood water along the Sardinias Resaca, estimated cost about \$1,000,000; plans to be ready about March 1; Pat Devine, Engr., Pharr, Tex.\*

Tex., Galveston—Seawall—City and Galveston County contemplates additional coast protection, plans prepared by an engineering board composed of Gen. Henry M. Robert, Alfred Noble and H. C. Ripley; Galveston County will extend present seawall westward from Fifty-third St. for additional 3800 ft., protecting city from bay to gulf.\*

Tex., Houston—Elevators—Port Comsn. rejected bids for construction of \$1,000,000 grain elevator on the Houston ship channel; E. A. Rucker, Chief Engr., Houston.\*

Tex., Plainview—The Farmers Grain & Elevator Co., J. C. Terry, Pres., will probably rebuild burned elevator.

Va., Roanoke—Swimming Pool—Details under Buildings Proposed, Association and Fraternal.\*

### Miscellaneous Enterprises

Ala., Birmingham—Holcombe Textile Equipment Co., 1501 Fifth Ave., capital \$40,000, incorporated with G. C. Illingsworth, Pres.-Treas.; R. D. Johnston, Sec.; manufacture bunch fillers.

Ala., Birmingham—McDavid-Quinn Construction Co., incorporated with L. R. Quinn, Pres.; Kyle Lawson, Sec., 901 S. 15th St.

Ala., Hartford—Wiregrass Hatchery, R.F.D. No. 1, has building and installed one No. 7 Buckeye mammoth incubator, weekly capacity 2600 chicks; equipment furnished by Buckeye Incubator Co., Springfield, Ohio. (See Machinery Wanted—Shipping Boxes.)

Ala., Marion—Contracting—Wood & Pope, organized by Emmett Pope and J. A. Wood.

Ark., Fort Smith—Bus Line—J. C. McAlman, contemplates extending bus line from Gore, Okla., to Fort Smith, giving through service to Muskogee.

Ark., Fort Smith—Clinton Pinckney Construction Co., capital \$25,000, incorporated by Clinton Pinckney, Vigil L. Tumbia, 308 Page St., and others.

Ark., Little Rock—Schmand-Porbeck Co., Wm. Schmand, Sr., Pres., increased capital from \$100,000 to \$150,000.

D. C., Washington—Honk King Low, Inc., 414 Ninth St., N. W., capital \$12,000, incorporated by Wen Wink Lem, Wen Jock, Chin Chong.

D. C., Washington—Washington Sausage & Provision Co., Inc., capital \$100,000, chartered by Geo. E. Mengel, Washington; Joseph J. Roach, Albert F. Olson, 3935 Cedar Ave., both Baltimore.

D. C., Washington—The Mutual Cleaning Co., incorporated by Joseph A. Geler, Philip Stearns, both Washington; Phillip Huck, 27 Pine St., Takoma Park, Md.

D. C., Washington—The Monterey Pharmacy, Inc., capital \$10,000, chartered by Simon Spigel, 2604 Connecticut Ave., N. W., Martin Schwartz and others.

Fla., Arcadia—King Brothers, capital \$800,000, incorporated with H. L. King, Pres.; T. B. King, Sec.

Fla., Coral Gables—Miami-Biltmore Hotel Corp., capital \$150,000, chartered with John McE. Bowman, Pres.; Telfair Knight, Sec.

Fla., Fort Myers—The Johnson Corp., capital \$25,000, chartered with Harris P. Johnson, Pres.; Frank C. Alderman, Sec.

Fla., Jacksonville—The Gregg Corp., chartered with J. J. Roumillat, Pres., 3324 Oak St.; Sarah A. Gardiner, Sec.

Fla., Jacksonville—Florida Waterfront Corp., capital \$100,000, chartered with Thomas H. Starrett, Pres.; J. C. Prosser, Sec., 3235 Pine St.

Fla., Jacksonville—Southern Products & Manufacturing Co., capital \$1,000,000, incorporated with A. E. Henderson, Pres.; A. S. York, Sec.

Fla., Lakeland—Resisto Bottling Works, incorporated with A. Ladson, Pres.; Mrs. W. W. McKnight, Sec.

Fla., Miami—R. M. Erdman, Inc., capital \$10,000, chartered with R. M. Erdman, Pres., 49 N. E. First St.; Stuart Hall, Jr., Sec.

Fla., Miami—The Ben Diamond Co., Inc., capital \$50,000, incorporated with Ben Diamond, Pres.; Geo. W. Halstrom, Sec.

Fla., Miami—Hundred Homes Corp., capital \$100,000, chartered with Wm. W. Shipp, Pres., 34 S. W. 18th Rd.; C. C. Hatcher, Jr., Sec.

Fla., Miami—The Martin-Harrington Co., capital \$20,000, incorporated with Joseph L. Martin, Pres.; Daniel J. Harrington Co., capital \$20,000, incorporated with Joseph L. Martin, Pres.; Daniel J. Harrington, Sec.

Fla., Miami—Lindsay & Bosborough, capital \$10,000, incorporated with W. H. Lindsay, Pres.; Louis J. Howell, Sec.

Fla., Miami—Laney, Inc., chartered with H. A. Laney, Pres.; G. E. Matthews, Sec.

Fla., Miami Beach—Fire Fighting Equipment—City will purchase \$15,500 hook and ladder motor truck for fire department. Address City Clerk.

Fla., Orlando—The Florida Factors, capital \$60,000; incorporated by S. Lee Phillips, S. E. Durrance and R. I. Johns.

Fla., Orlando—Altomonte Hornes Co., incorporated with Henry Allsopp, Pres.; Howard Allsopp, Sec., 654 Dot Circle.

Fla., Orlando—Orlando Yellow Cab Co., capital \$10,000, incorporated with Geo. W. Williams, Pres.; Allie S. Williams, Sec.

Fla., St. Petersburg—Modern Towel & Linen Supply Co., capital \$25,000, incorporated with S. E. Boughton, Pres.; C. R. Doddridge, Sec.

Fla., Palm Beach—Gulf Stream Construction Co., incorporated with L. F. Harder, Pres.; Geo. W. Coleman, Sec.

Fla., Sarasota—The Charles Ringling Co., capital \$25,000, incorporated with Charles Ringling, Pres.; Louis Lancaster, Sec.

Fla., Sarasota—Moore & Dooley, Inc., capital \$30,000, J. V. Moore, Pres.; Richard L. Dooley, Sec.

Fla., Sarasota—South Florida Construction Co., capital \$75,000, incorporated by W. A. Cook of Sarasota; W. K. Johnson and John Karner of Auburndale.

Fla., Sarasota—Hillcrest Manufacturing Co., capital \$25,000, incorporated with C. J. Howard, Pres.; B. T. Barnett, Sec.

Fla., St. Petersburg—Parklap Engineering & Surveying Co., Inc., capital \$10,000, chartered with Chas. E. Lund, Pres.; Jack V. Lund, Sec.

Fla., South Jacksonville—Fire Fighting Equipment—Details under Land Development.

Fla., Tampa—Twin Cities Baking Co., capital \$50,000, incorporated with Paul Willatz, Pres.; J. T. Watson, Sec., Lucas Bldg.

Fla., Tampa—Tampa Asbestos Co., J. W. Barber, Jr., Sec., 2202 Seventh St., has rented space, and equipment installing lathe, drill press, tools, etc.; equipment furnished by Regar Machine Co., 212 S. Franklin St., Senour Hardware Co., 2202 Seventh Ave., Tampa Auto Electric Co., 1717 Franklin St., and Bender Electric Co., 1533 Seventh Ave.\*

Fla., Tampa—H. M. G. Cigar Co., capital

\$35,000, incorporated with Nell P. Duross, Pres.; H. J. Griggs, Sec.

Fla., Tampa—J. E. Head Co., Inc., chartered with J. E. Head, Pres.; C. E. Kelley, Sec.

Fla., Tampa—Rinaldi Printing Co., 107 Lafayette St., capital \$25,000, incorporated with H. S. Rinaldi, Pres.; Thomas J. Brown, Sec.

Fla., Tampa—Coastal Dredging Co., incorporated with R. P. Durham, A. E. Putnam, Sec.

Fla., West Palm Beach—Leon W. Hall Co., capital \$100,000, incorporated with Leon W. Hall, Pres.; Nora E. Hall, Sec.

Fla., Winter Haven—Sinclair Hardware & Furniture Co., capital \$10,000, incorporated with H. W. Fraser, Pres.; L. C. Sinclair, Sec.

Ga., Augusta—Holman Hotel Co., capital \$50,000, incorporated by H. H. Alexander, H. B. Garrett, F. E. Petit, 930 Greene St.

Ga., Columbus—Fire Fighting Equipment—City Comsn. let contract to Fabric Hose Co., New York, for 4000 ft. fire hose.\*

Ga., Macon—Overalls—Happ Brothers Co., Broadway, let contract to Chester W. Jones for 40x120-ft. plant addition, 4-story, brick, mill construction, sprinkler system throughout; steel frames with ribbed glass; first floor to be used for storage; second floor for stock room; third floor used for recreation hall, restaurant for the employees, dining room having seating capacity for 300 persons, reading rooms, etc.; Frank R. Happ, Archt.

Ga., Savannah—Stull Process Co., capital \$10,000, incorporated by R. T. Stull, J. M. Mallory, 425 Bull St., and J. D. McCartney; manufacture ceramic materials, etc.

Ga., Valdosta—Union Bus Co., incorporated by J. Y. Roberts, A. Winn and J. M. Calhoun; contemplate operating bus line to Tallahassee and Gainesville, Fla., Fitzgerald, Albany and intermediate points.

Ky., Lexington—Elmwood Hospital, capital \$75,000, incorporated by Dr. C. A. Nevitt, Leestown Park; Dr. L. H. Mulligan, Dr. L. C. Redman.

Ky., Louisville—The Best Builder Corp., capital \$50,000, chartered by Harrie T. Best, Glendon M. Fisher and John Ford Morris, 1034 Garvin Place.

Ky., Louisville—The Page Remedy Corp., chartered by J. H. Lewis, John H. Frank and J. C. S. Newells.

Ky., Louisville—Sun Manufacturing Co., S. A. Sunderhauf, Pres., 722 South Twenty-sixth St., has plant, will install coil winding machines, small circular saws, bench lathe, radio testing apparatus, etc. (See Machinery Wanted—Lathes, Saws, Radio Testing Apparatus, etc.)\*

Ky., Middleboro—Parsons Lee Co., capital \$10,000, incorporated by P. M. Parsons, John J. Lee and others.

La., New Orleans—Galennie, Inc., chartered with Frank Rieth, Jr., Pres., 610 City Park Ave.; Henry Kerth, Sec., 725 Constantinople St.

La., New Orleans—Baronne Pharmacy, Inc., capital \$10,000, chartered with Claude H. Smith, Pres., 505 Chartres St.; Elmer Ehrett, Sec., 1152 N. Claiborne St.

Ky., Russellville—Knob City Creamery, capital \$15,000, incorporated by E. C. Price, W. H. Gulon and Bernard Edwards.

La., New Orleans—Bus Line—Details under Tenn., Memphis.

La., Shreveport—J. W. Sanders Contracting Co., capital \$25,000, incorporated with M. Stodder, V. P., L. A. Campbell, Sec., both Monroe, La.

Md., Baltimore—Railroad Contractors—B.



F Johnston & Co., Inc., organized with B. F. Johnston, Pres. Fidelity Bldg.; Frank C. Wolfe, Sec.\*

Md., Baltimore—The Century Catering Co., 19 W. Lexington St., incorporated by Paul Caplan, Wm. E. Smith and Myer M. Astrin.

Md., Baltimore—Ansell's Coat & Dress House, Inc., 215 W. Baltimore St., chartered by Morris Ansell, Nathan H. Greenberg, Charles Cunningham; manufacture clothing.

Md., Baltimore—Wm. H. Brown & Bro. Co., 860 N. Howard St., increased capital from \$15,000 to \$100,000.

Md., Baltimore—The Clifton Electric & Roofing Co., capital \$100,000, incorporated by Israel Herman, Isaac Fershtut and others.

Md., Baltimore—Charles Electric Co., 2604 Ulman Ave., capital \$20,000, incorporated by James S. Crow, Moses Katz and others.

Md., Baltimore—The Duplex Apartment Co., 211 New Amsterdam Bldg., capital \$50,000, incorporated by Geo. W. S. Musgrave, Louis M. Silberstein and others.

Md., Baltimore—Economy Dental Laboratory, Inc., 215 Liberty St., chartered by Edward A. Belaga, Barney Guterman and others.

Md., Baltimore—Birmingham Metal Corp., 1031 Munsey Bldg., capital \$100,000, incorporated by Wm. L. Straus, Charles H. Birmingham and Raphael Schroeder.

Md., Baltimore—Kellner Markets, Inc., 1244 W. Cross St., capital \$20,000, chartered by Geo. Kellner, Christian Stapf and Emanuel Kellner.

Md., Baltimore—California Cafeteria Co., 206 W. Fayette St., capital \$25,000, incorporated by Oliver C. Simmont, Robert N. Bear and others.

Md., Baltimore—Home Electric Appliance Corp., 24 W. Franklin St., chartered by Frederick P. Crouch, Russell W. Trout and Joseph F. Mack.

Md., Baltimore—C. H. Braun & Son (rectifiers), Saratoga and Locust Sts., plans erecting \$10,000 addition, 80x84-ft., 1-story, steel construction.

Md., Baltimore—Transportation—Belvedere Taxi-Touring, Inc., 4 E. Chase St., capital \$100,000, chartered by Hollis C. Ward, Henry T. Ward and others.

Md., Baltimore—Congers Floor Sealers, Inc., 1107 American Bldg., chartered by Frank B. Conger, Florence W. Conger and others.

Md., Baltimore—The Violet Electric Co., Inc., 2620 Violet Ave., capital \$10,000, chartered by Wm. Zimmerman, A. Wm. Cohen and others.

Md., Baltimore—Specialties Co., Inc., 601 Title Bldg., chartered by Charles B. Hoffman, James Carey, 3rd, and C. R. Wharton Smith.

Md., Baltimore—Opticians, etc.—Schumacher & Foreman, Inc., 36 West Lexington St., capital \$50,000, chartered by Isaac N. Foreman, Albert E. Heimert and Herbert C. Forrester.

Md., Baltimore—Contracting—The J. Raymond Gerwig, Inc., 213 St. Paul Place, chartered by J. Raymond Gerwig, Wm. H. Gisin and others.

Md., Bethesda—The Bethesda Construction Co., capital \$10,000, incorporated by Lee O. Ray, Frank L. Averill and others.

Md., Elkton—Abso-Laboratories, Inc., capital \$500,000, chartered by E. V. Brown and others.

Md., Frederick—The Maryland Public Service Co., capital \$20,000, incorporated by L. D. West, E. E. Yensel and Newell Duvall.

Md., Salisbury—Twigg & Sheridan, Inc., capital \$25,000, chartered by Herman H. Twigg, Richard B. Sheridan and others.

Miss., Hazlehurst—The Hazle Trading & Exchange Co., organized by T. E. Granberry, and others.

Miss., Hattiesburg—Dixie Mattress & Furniture Co. increased capital from \$20,000 to \$50,000.

Miss., Jackson—Hall Feed & Produce Co., capital \$25,000, incorporated by R. D. Hall, W. H. Hall, Edwards Hotel Bldg., and others.

Miss., Jackson—Electrical Equipment—The Beacham Supply Co., capital \$25,000, incorporated by B. K. Beacham, Euclid Ave., E. P. Butler and others.

Miss., Vicksburg—R. C. Wilkerson, Inc., capital \$10,000, incorporated by R. C. Wilkerson, Theo. Hardy, Drummond St., and others.

Mo., Hannibal—Marion Hotel Co., capital \$50,000, incorporated by Geo. T. Thompson, St. Louis; J. G. Briggs, Price Butler.

Mo., Jefferson City—Clothing—Fixler Oscherwitz & Co., capital \$10,000, incorporated by Sam Broida, 6179 Westminster; Louis Fixler, 5804 Theodosia St. and others.

Mo., Joplin—Lewis Machine Co., capital \$50,000, incorporated by Harry L. Lewis, 2106 Byers St.; Frank O. Smith, Homer H. Williams.

Mo., Kansas City—Bland Screen Engineering Co., capital \$90,000, incorporated by Ewing C. Bland, Springfield, Mo.; Ewing Bland, 215 E. 46th St., Kansas City.

Mo., Kansas City—Coca-Cola Co., Coca-Cola Bldg., capital \$15,000, incorporated by R. W. Woodruff, Pres.; S. F. Boykin, Sec.

Mo., Kansas City—Todd Protective Sales Corp., 308 Chambers Bldg., chartered with L. M. Todd.

Mo., Kansas City—Crescent Building Co., incorporated by Bernard D. Morley, 3337 Pasco St.; Harold R. Kirk and others.

Mo., Kansas City—Laundry—Frank M. Potter has acquired building corner Twelfth and Lydia St., will improve and occupy.

Mo., St. Louis—Webb Boone Paving Co., capital \$75,000, incorporated by Frank C. Webb, 4127 Lafayette St.; Daniel J. Boone, 5002 Lansdowne Blvd. and others.

Mo., St. Louis—Higgs Harvest Hat Co., capital \$20,000 incorporated by Emlen Cooper, 4937 Moffitt St.; Wm. R. Davidson, Walter E. Higgs.

Mo., St. Louis—Drugs—Germ-Elm Inc., 512 Granite Bldg., capital \$100,000, chartered by M. Hotchkiss, and R. Rubesa, both St. Louis; Chas. A. Niel, Webster Groves.

Mo., St. Louis—Hardware—John A. Morgan, Inc., capital \$10,000, chartered by John A. Morgan, Edward J. Voney and others.

Mo., St. Louis—Triangle Manufacturing Co., 922 Pine St., has acquired building at 718 N. Fifteenth St.; will make extensive alterations and repairs; manufacture inks.

Mo., St. Louis—Kiger Electric & Manufacturing Co., incorporated by W. H. Kiger, 1611 Lafayette Ave.; C. Opperman, Jr. and A. J. Wylie.

Mo., St. Louis—Trampe Spark Plug Co., incorporated by P. A. Doyle, 3540 Wyoming St., M. E. Holderness and others.

Mo., St. Louis—Ornamental Lighting Manufacturing & Sales Co. incorporated by Eugene J. Spencer, 215 Oakwood; S. B. Lovejoy and others.

Mo., St. Louis—Bettendorf Packing Co., capital \$300,000, incorporated by John Bettendorf, 1730 S. Ninth St.; Frank Shi, 1550 S. Second St., and others.

Mo., Springfield—Tulsa Oxygen Co., capital

\$50,000, incorporated with Willard Foster, Pres.; A. E. Anderson, Sec.

Mo., Springfield—Jel Okino, R. F. D. No. 1, Strafford, reported as having plans for the erection of concrete building, install machinery for the making of cheese.

N. C., Arden—Hillford Printing & Publishing Co., capital \$180,000, incorporated by Marion R. Hillford, Naples; H. C. Jarvis and J. E. Clements, both Asheville.

N. C., Durham—Fire Protection—R. W. Rigsby, City Mgr., contemplates installing fire and police signalling system.

N. C., Fayetteville—Clayton Cigar Co., capital \$50,000, incorporated by W. F. Clayton, E. M. Nimocks and L. W. Ashby.

N. C., Greensboro—Henry V. Koontz, Inc., capital \$100,000, incorporated by Henry V. Koontz, A. B. High and F. T. Miller, American Bank Bldg.

N. C., Greenville—Turnage-Winslow Co., capital \$150,000, incorporated by M. L. Turnage, J. E. Winslow and others.

N. C., Hendersonville—Quality Ice Cream Co., Library St., S. C. Walter, Pres., Spartanburg, will erect ice cream and pasteurized milk plant, costing between \$15,000 and \$20,000, has acquired site at Fifth Ave. and Southern Railway track.

N. C., Snow Hill—F. W. Dixon Co., capital \$25,000, incorporated by F. W. Dixon, H. T. Carraway, C. A. D. Grainger.

N. C., Varina—Varina Supply Co., capital \$20,000, incorporated by J. H. Akins, S. H. Hopson and others.

N. C., Winston-Salem—Hardware, etc.—The Brown-Rogers-Dixson Co., N. Liberty St., W. M. Dixon, Pres., increased capital from \$300,000 to \$500,000; changed name from Brown-Rogers Co.

Okla., Miami—Miami News-Record Publishing Co., capital \$50,000, incorporated by J. F. Robinson, G. L. Coleman and E. P. Martin.

Okla., Norman—Clark Cleaning Co., capital \$12,000, incorporated by B. A. Clark, E. L. Sisson, R. K. Langdon.

Okla., Sapulpa—R. V. Rule, Sec. Chamber of Commerce, advises: Sunflower Glass Co., Frank Bostock, Pres., is moving machinery plant from Augusta, Kan.; will establish plant at Sapulpa.

Okla., Sapulpa—Sunflower Glass Co. advises: The Victory Window Glass Co. contemplates operating plant here with the machinery purchased for use at their plant at Augusta, Kan., which was destroyed; have assembled all machinery and will install by own labor.

Okla., Tulsa—R. C. Mills Produce Co., \$20,000, incorporated by Hal B. Killingsworth, Guy Mills, 2115 E. 21st St.; Carlos A. Rogers.

Okla., Tulsa—Gunn-Rush Welding & Manufacturing Co., capital \$25,000, incorporated by Logan D. Gunn, A. Wesley Rush, 1316 S. Utica St., and others.

Okla., Tulsa—Compression Tube Realization Co., capital \$150,000, incorporated by H. W. Bander, C. H. Hindman and L. N. Ewing, 212 P. & L. Bldg.

Tenn., Bristol—King Bros. Shoe Co. increased capital from \$200,000 to \$250,000.

Tenn., Chattanooga—Bus Line—Tennessee Electric Power Co., Hamilton National Bank Bldg., contemplates establishing motor bus line to territory east of Missionary Ridge.

Tenn., Kingsport—Tennessee Eastman Corp., P. S. Wilcox, Gen. Mgr., advises: Have begun building plant, construction by own forces; special equipment will be purchased; no contracts have been let, but expect that orders for the major items will be placed in the next two weeks; manufacture chemicals.\*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tenn., Etowah—Blount, Everhart Undertaking Co., capital \$10,000, incorporated by N. G. Everhart, J. W. Blount, S. W. Jennings.

Tenn., Memphis—Gregory Bus Lines, 392 Mulberry St., A. L. Wilburn, Traffic Mgr., reported as planning bus line between Memphis and Chicago, Ill., and Memphis and St. Louis; if project is successful a line from both points will probably run to New Orleans and service from Minneapolis to New Orleans also appears certain, the latter following the scenic highway.

Tenn., Memphis—The Memphis Fender & Enamel Works, 56 S. Fourth St., has leased additional floor space at 51 S. Fourth St.

Tenn., Memphis—Robert Garrison & Co., 352 N. Front St., capital \$25,000, incorporated by Robert Garrison, M. A. Lambert, M. E. Hinds.

Tenn., Memphis—Fire Fighting Equipment—E. W. Hale, Chrmn. Shelby County Comsn. contemplates purchasing one or two 80 gal. chemical tank wagons.

Tenn., Oneida—Sheppard Building & Supply Co., capital \$25,000, incorporated by W. E. Sheppard, C. K. Young, D. H. Benty.

Tex., Abilene—S and J Battery Co., incorporated by Sam H. Johnson, W. H. Shanks, and others.

Tex., Alvin—Publishing—The Alvin Sun, capital \$10,000, incorporated by J. P. Beck, N. H. Beck, E. S. Beck.

Tex., Alvin—Details under Land Development.

Tex., Austin—The Famous Mart, capital \$15,000, incorporated by Harry Weinblatt, Frank Handelman and Jake Kroll.

Tex., Brownwood—Harry Knox Co. changed name from Knox-Johnson Co., increased capital from \$20,000 to \$50,000.

Tex., Dallas—Elms Machinery Co. incorporated by Arthur R. Thomasson, James J. Elms and W. A. Bell, 3612 Worth St.

Tex., Dallas—Pan-American Wall Paper & Paint Co., capital \$10,000, incorporated by M. H. Goldsmith, American Exchange Bldg.; P. E. Foreman, David C. McCann.

Tex., Dallas—Morgan Engraving Co., capital \$20,000, incorporated by W. B. Morgan, 3535 Dunbar St.; W. F. Shook and others.

Tex., Fort Worth—H. T. Pangburn Co., 1305 W. Seventh St., will erect 2-story and basement building on W. Seventh St., adjoining present candy manufacturing plant, giving total frontage of 150 ft.; will expend between \$10,000 and \$15,000, increasing capacity of factory for the making of ice cream; building to begin about May 1; will also establish second cafeteria on Houston St.; leased building and will remodel.

Tex., Fort Worth—Count B. Capps and Frank Anderson, owners of the Cascade Laundry, 605 W. Railroad St., are building \$175,000 plant on West 7th St., containing approximately 19,000 sq. ft. floor space, has site of 300x240 ft.; to be completed by May; reinforced concrete, 2-story section, 40x107 ft., 1-story section, 92x40 ft.; foundations completed; tar and gravel roof, concrete floors; \$50,000 equipment already owned to be used in new plant; new installation to cost \$40,000; includes miscellaneous laundry machinery, boilers, deep well, etc. Part of equipment has already been purchased from American Laundry Machinery Co., Cincinnati, Ohio; Southern Trading Co., Fort Worth; boilers and other equipment not yet ordered. James T. Taylor, Burkburnett Bldg., general Contr. and W. G. Clarkson & Co., Archts., both Fort Worth.

Tex., Fort Worth—C. M. Carter Grain Co.,

N. P. Anderson Bldg., capital \$25,000, incorporated by C. M. Carter, Leslie Jenisen and M. D. Johnson.

Tex., Gainesville—H. W. Stark Drug Co., capital \$100,000, incorporated H. W. Stark, C. H. Gravitt, E. E. Frost.

Tex., Houston—The Houston Nu-Way Laundry Co., capital \$30,000, incorporated by A. J. Phillimore, W. C. Delon and John H. Roach, 1407 Nebraska St.

Tex., Houston—The Pagoda Trading Co., capital \$25,000, incorporated by J. L. Hendley, R. B. Carter, 3610 Mt. Vernon St., S. R. Hay, Jr.

Tex., Houston—Balke Electric Co. incorporated by J. W. Balke, J. A. Lewis, V. L. Planchard, 1316 McKinney St.

Tex., Houston—Lykes-Ripley Steamship Co., J. M. Lykes, Pres., formed by the consolidation of the Daniel Ripley & Co. and the Lykes Brothers Steamship Co.; Lykes Brothers Steamship Co. will act as agents for the new company at New Orleans, La., and Galveston; Daniel Ripley & Co. will act as agents at Houston.

Tex., Houston—Houston Utilities, Inc., capital \$100,000, chartered by L. T. Anderson, 1516 Alabama Ave., E. S. Atkinson, J. B. Gaughan.

Tex., Houston—Star Specialty Corp., capital \$55,000, incorporated by F. H. Rash, F. E. Barnett, 1011 La Branch St., H. G. Whitney.

Tex., Pharr—Pharr Theater Co., capital \$10,000, incorporated by J. A. Cook, Houston Jones and others.

Tex., San Antonio—M. J. Roos & Co., capital \$20,000, incorporated by J. M. Roos, Henry Roos, 123 W. Locust St., and others.

Tex., Waco—Hicks Rubber Co., 300 Austin Ave., capital \$15,000, incorporated by D. N. Hicks, E. A. Harris, D. T. Hicks.

Va., Abingdon—Combs Construction Co., Inc., chartered with A. R. Combs, Pres.; H. P. Combs, Sec.

Va., Bedford—Overstreet Corp., capital \$10,000, chartered with W. A. Nance, Pres.; W. M. Overstreet, Sec.

Va., Bristol—Cinchfield By-Products Coke Corp., chartered with N. W. Roberts, Pres.; J. Warren P. Eston, Sec.

Va., Charlottesville—Apple Concentrators, Inc., capital \$25,000, chartered with Wm. H. Bass, Pres., Coveseville, Va.; F. E. Merrifield, Sec., Charlottesville.

Va., Coeburn—R. V. Wohlford Drug Co., capital \$15,000, incorporated with R. V. Wohlford, Pres.; S. L. Eversole, Sec.

Va., Honaker—Bee Hive Supply Co., Inc., capital \$10,000, chartered with C. W. Fuller, Pres.; W. D. Poindexter, Sec.

Va., Keysville—Charlotte Distributing Co., Inc., capital \$15,000, chartered with W. E. Hailey, Pres.; E. M. Arvin, Sec.

Tex., Lubbock—Bakery—R. H. Martin has acquired site on East Broadway, reported to erect \$40,000 building, 75x105-ft., install equipment for a modern wholesale bakery.

Va., Newport News—The Newport News & Hampton Railway, Gas and Electric Co., 3025 Washington Ave., have taken over the passenger bus lines operating over routes within the city, is replacing equipment.

Va., Norfolk—W. W. Thompson Co., Inc., capital \$50,000, chartered with W. W. Thompson, Pres.; L. W. Tazewell, Sec., 857 W. 46th St.

Va., Richmond—Tin foil—Lehmaier-Schwarz Co., Seventh St., will expend \$29,000 repairs and alterations to factory and warehouse.

Va., Richmond—Virginia Lithia Spring Co., incorporated with Oscar Swinford, Pres.; John A. Lille, Sec., American National Bank Bldg.

Va., Sweet Hall—Pamunkey Ferry Co., N. R. Palmer, Pres., increased capital to \$25,000.

W. Va., Charleston—Charleston Theatres Corp., capital \$1,000,000, chartered by S. A. Moore, Kanawha National Bank Bldg.; E. B. Coleman, James Carragen.

W. Va., Charles Town—The Shenandoah Pulp Co. reported to have purchased 3.13 acres above the Bull's Falls power-house, to use land; develop water power.

W. Va., Fayetteville—The Waugh Brothers, Inc., capital \$50,000, chartered by G. G. Waugh, M. R. Waugh and others.

W. Va., Huntington—Harvey & Co., capital \$100,000, incorporated by H. C. Harvey, Joe W. Dingess, H. H. Harvey, 520 Tenth St.

W. Va., Huntington—Universal Tool Co., capital \$40,000, incorporated by Hartford McMullin, Lloyd F. Johnson and others.

W. Va., Kermit—The Ira Webb Construction Co., capital \$50,000, incorporated by Ira Webb, Kermit; L. T. Webb and J. H. Chann, both Williamson.

W. Va., Logan—The Aracoma Hotel Co., increase capital from \$50,000 to \$100,000.

W. Va., New Martinsville—The Ohio Valley Builders Supply Co., increased capital from \$25,000 to \$75,000.

W. Va., Parkersburg—Nuhfers Brothers Co., capital \$50,000, incorporated by A. J. Hay, L. R. Nuhfer, J. A. Nuhfer.

W. Va., Wheeling—The Ankrom-Browder Construction Co., capital \$25,000, incorporated by J. N. Ankrom, E. T. Browder and others.

### Motor Cars, Garages, Tires, Etc.

Fla., Jacksonville—Jones-Swan Motor Co., capital \$200,000, incorporated with Guy C. Jones, Pres.; Mason M. Swan, Sec.

Fla., Lake Worth—Tatom Motor Co., capital \$50,000, incorporated with I. J. Tatom, Pres.; G. M. Tatom, Sec.

Fla., Miami—Miami Motor Speedway Assn., capital \$500,000, chartered with R. A. Hankinson, Pres.; William R. Jesse, Sec.

Fla., Sanford—East Side Service Co., incorporated with C. M. Berry, Pres.; C. W. Stowe, Sec.

Ga., Savannah—F. Chris Kramer Co., 27 W. Broad St., capital \$50,000, incorporated by Stiles Mellichamp and F. Chris Kramer.

Ky., Newport—Knoblock Tire Co., capital \$30,000, incorporated by J. W. Knoblock, L. J. Crawford and others.

La., Monroe—Monroe Auto Wrecking Co., Inc., capital \$10,000, chartered by G. L. Mahoney, W. F. Pipes, Central Bank Bldg., and others.

La., Montgomery—Booth Motor Co., Inc., capital \$9000, chartered with Wilnot McCain, Pres.; E. V. Booth, Sec.

La., Wisner—Wisner Motor Co., Inc., capital \$10,000, chartered with Belma Carroll, Pres.; S. E. Pool, Sec.

Md., Baltimore—General Automobile Owners' Assn., Inc., 4702 Old Frederick Road, capital \$10,000, chartered by Charles R. Haupt, James C. Thomas and others.

Md., Baltimore—The Motorists Automobile Asso., Inc., 803 Equitable Bldg., capital \$10,000, chartered by Morris Goldstein, Jean L. Golden and B. E. Peake.

Md., Baltimore—City, having plans by O. E. Adams, Archt., 833 Equitable Bldg., for garage for police station on Falls Road, 1-story,



frame construction; H. G. Perring, Chief Engr.

Md., Baltimore—Garage—John J. Carlin, 2528 Keyworth Ave., contemplates building \$10,000 garage at Liberty Heights and Overland Ave., 18x18 ft.

Md., Baltimore—Federal Motor Truck Co., 410 W. North Ave., have leased sales and service station at 2-4-6-8 East North Ave., containing approximately 33,000 sq. ft. floor space; building is being remodeled.

Md., Cumberland—The F. A. Close Co., capital \$50,000, incorporated by W. Milnor Roberts, Fred A. Close and Glenn J. Close.

Md., Cumberland—The Sinclair Refining Co., J. C. Dernough, representative, reported to erect garage, storage tanks and warehouse.

Md., Frederick—John E. Stonebraker, 112 S. Potomac St., is building drive-in filling station at Market and Seventh St.

Md., Salisbury—Gunby Nash Motors Co., Inc., capital \$200,000, chartered by Graham Gunby, Fred L. Smith and Mary S. Lowe.

Md., Salisbury—Gunby Motor Co., Inc., capital \$200,000, chartered by John J. Gunby, Jos. Y. Gunby and Walter B. Miller.

Miss., Gulfport—Grady Smith, of Love Station, has acquired building, will establish Ford agency.

Miss., Brookhaven—Laird Day Auto Co., capital \$20,000, incorporated by L. J. Laird, D. E. Day and others.

Mo., Maywood—Figgins-Kelly Motor Sales Co. incorporated by Chas. A. Figgins, M. R. Kelley and others.

Mo., St. Louis—Wilson Motor Car Co., increased capital from \$15,000 to \$50,000.

Mo., St. Louis—Motor Paint & Supply Co., 3910 Washington Ave., capital \$15,000, incorporated by Clarence S. Rose, John Kennedy of East St. Louis, Ill., and others.

Mo., St. Louis—The Cooper Tire & Battery Co., incorporated with I. J. Cooper, Pres.; Ralph H. Prinz, Sec.

Mo., St. Louis—The Square Tire Sales Co., 2628 N. Grand St., capital \$10,000, incorporated by Wm. L. Bowcott, Robert W. Sergel, Fred L. Kloske.

Mo., St. Louis—Gabriel Snubber Co., Cleveland, Ohio, let contract to A. H. Stell, 813a Chestnut St., St. Louis, for \$16,000 sales and service station at 3900 Londell Blvd.; 1-story, 30x68-ft., brick, terra cotta trimmings; H. W. Gluth, Archt., 813a Chestnut St.

Mo., Springfield—The Midway Auto Accessory Co., 1124 Boonville Ave., will erect \$10,000 building corner Boonville Ave. and Court St., will install service station, battery station and accessory dept.

Mo., Wellston—Tarzan Tire & Rubber Co., incorporated by E. J. Goodwin, E. Koerner, Art Mooney.

N. C., Greensboro—City Motor Car Co., Inc., capital \$20,000, chartered by Alvin L. Thompson, Frank P. Goodwin and Chas. Morrison, Fisher Ave.

N. C., Sanford—Bowen Motor Co., capital \$50,000, incorporated by Carl T. Bowen, Sanford; E. P. Wharton and David White, 233 S. Elm St., both Greensboro.

N. C., Wilmington—Live Oak Service Station, Inc., capital \$50,000, chartered by L. B. Borneman, 222 S. Seventh St., J. H. Cumbee and others.

Okla., Ada—Garage—W. E. Harvey let contract to E. W. Steward, of Ada to erect \$30,000 garage, 1-story, 100x200-ft., brick and steel construction; Albert S. Ross, Archt., Ada.

S. C., Chesnee—Hatchette-Hall Motor Co.,

capital \$20,000, incorporated with V. E. Hatchette, Pres.; R. P. Smith, Sec.

S. C., Columbia—Standard Oil Co., Weir S. Goodwin, Mgr., will erect service station corner Assembly and Hampton Sts.

S. C., Greenville—United Tire Co., capital \$10,000, incorporated by J. E. Phillips, Ennis Smith and J. I. Rose, Otis Ave.

Tenn., Knoxville—Knoxville Lincoln Sales & Service, Inc., capital \$25,000, incorporated by C. M. Cooley, H. C. Fowler, 833 N. Fifth Ave., D. C. Chapman.

Tenn., Memphis—Johnston Auto Service Co., 650 Marshall Ave., incorporated by D. E. Johnston, Fred Bertorelli, Antony Isele.

Tex., Beaumont—Garage—A. M. Kaufman, reported to erect \$26,000 garage at Fannin and Neches St.

Tex., Corpus Christi—Crockett Automobile Co., Inc., capital \$15,000, chartered by Geo. F. Holden, L. G. McGinity, 615 Hancock Ave., and Horace Chambers.

Tex., Houston—Shelor Motor Co., J. W. Shelor, Pres., 520 Louisiana St., will erect \$20,000 addition on Silver St., concrete floors, gravel and composition roof, either steel or wood construction.\*

Tex., Littlefield—Shaw-Earnest Co. are having plans prepared by A. G. Glenn, Littlefield, for \$30,000 bus building, 2-story, 25x125 ft., brick construction.

Tex., Waco—Central Motor Co., J. N. Mitchell, Gen. Mgr., 91 Austin Ave., let contract Rabe Wilson, 2326 Morrow Ave., to erect 1 and 2 story, 75x350 ft. building at Franklin and Austin St.; brick, steel and concrete; fireproof; Nash Robinson Lumber Co., furnishing material; Milton W. Scott, Archt., 412½ Franklin Ave. (Superseded recent item.)

Va., Danville—E. C. Arey let contract to L. B. Flora for \$40,000 garage building on Main St.

Va., Portsmouth—Garage—Portsmouth Coal & Ice Holding Corp., 1301 High St., will erect \$10,000 garage on High St.

Va., Pulaski—Antrim Motor Co., capital \$25,000, chartered with A. Blair Antrim, Pres.; Maud Umberger, Sec.

Va., Roanoke—Indiana Truck Co., Inc., Salem Ave., incorporated with John W. McCauley, Pres., Box 373, have building; will install shop machinery. (See Machinery Wanted—Automobile Repair Shop Equipment.)\*

W. Va., Mill Creek—Mill Creek Motor Co., capital \$25,000, incorporated by W. N. Snedegar, Don Harper and others.

W. Va., Wheeling—The Packard Wheeling Motor Co., capital \$10,000, incorporated by H. M. Russell, Wheeling Steel Corp. Bldg.; Alma Dietrich and others.

### Railways Shops, Terminals, Round-houses, Etc.

Ky., Paducah—Illinois Central R. R. Co., F. L. Thompson, Ch. Engr., Chicago, Ill., reported to expend approximately \$6,000,000 on improvements, including 250x265-ft. locomotive building shop; locomotive repair shop; car building plant; 150x650-ft. car repair shop; carpenter shop; wood mill and store room; craneway to be 80x240-ft.; 80x200-ft. foundry; 75x175-ft. boiler shop; 450x850-ft. blacksmith shop; 100x150-ft. power house; 125x600-ft. tank shop and 40x100-ft. air-brake shop and other buildings; have purchased approximately 15 city blocks for plant in the southern part of Paducah; construction to begin at once.

La., Gentilly, P. O. New Orleans—Louisville & Nashville R. R. Co., W. H. Courtenay,

Chief Engr., Louisville, Ky., let contract to W. Horace Williams Co., Inc., 3318 Coliseum Ave., New Orleans, for new station, round-house and yard structures on the Chef Menteur road; work consists of 7-stall round-house with concrete floors, one concrete drop pit and one pony pit; 68x64-ft. machine shop; 30x50-ft., 2-story brick office building; 1-story engineering and register building, with plumbing and heating equipment; 140x100-ft. brick passenger station; 2-story, 20x55-ft. locker; 2x30-ft. frame sand storage and drying house; 1-story 20x50-ft. brick switchman's room and 20x40-ft. brick fireman's room; also 2-story 30x60-ft. yard office; W. P. Turner, Resident Engr.; J. C. Haly, Archt., Ninth and Broadway, Louisville, Ky.\*

Tenn., Erwin—Carolina, Clinchfield & Ohio Ry., W. C. Hattan, Ch. Engr., Erwin, reported to expend \$1,000,000 on improvements to shops; L. H. Phettleplace, Gen. Mgr.

### Road and Street Construction

Alabama—State Highway Comm., Montgomery, will receive bids Feb. 25 for 5 roads: Madison County, 2.983 mi. between Hintsville and Federal Aid Project No. 39, 28,277 cu. yds. common and solid rock excavation and borrow, 29,755 sq. yds. bituminous macadam, penetration method, 31,505 sq. yds. two course waterbound macadam base, or 29,755 sq. yds. rawhide pavement; Fayette and Tuscaloosa Counties, 18.861 mi. between Fayette and New Lexington, gravel or sand-clay, 319,471 cu. yds. common and solid rock excavation and borrow, 133,378 lbs. reinforcing steel, also bridges, 5566 cu. yds. dry, wet and rock excavation, 368,452 lbs. reinforcing steel; Lawrence County, 13.554 mi. from Moulton to Courtland, 84,060 cu. yds. common and solid rock excavation, 60,218 lbs. reinforcing steel, also repair bridge at Sta. 215, 23,855 cu. yds. clay gravel, or 95,420 sq. yds. rawhide pavement; Hale County, 1.98 mi. in Greensboro, being part of Greensboro and Tuscaloosa road, 12,500 cu. yds. common excavation, 6935 lbs. reinforcing steel in culverts; Butler County, 10.314 mi. between Georgiana and Conecuh County line, 124,475 cu. yds. common, rock, ditch, channel excavation and special excavation for drainage structure at State 994 plus 66, 65,107 lbs. reinforcing steel in culverts, 87,466 lbs. steel reinforcing and structural steel in bridges; plans, etc., on file and from Div. Engr., Birmingham; W. S. Keller, State Highway Engr.

Ala., Birmingham—City Comm., plans expending \$34,000 to pave Ave. W, Twenty-eighth and Twenty-ninth Sts., Ensley, and Clairmont Alley; also sanitary sewer.

Ala., Birmingham—City Comm., plans paving E. Twentieth St., 50-ft. wide from Park to Eighth Aves., and 15-ft. sidewalk on east side of same street.

Ala., Camden—State Highway Comm., Montgomery plans 2 roads: 10 mi. from Masonic Hall in Camden to present terminus of Brandon Highway, at Rosebud; 41½ mi. Brandon Highway from Pine Apple to Butler County line.

Ala., Clanton—City let contract to Morgan-Hill Construction Co., Birmingham, at \$16,745 to grade and pave with concrete 1 mi., Sec. C of Birmingham-Montgomery Highway through city.

Ala., Clanton—State Highway Comm., Montgomery, let contracts for 17 mi. Birmingham-Montgomery Highway in Chilton County, from Lomax to Autauga County line: grading, Gillis Construction Co., Brewton, \$84,752; bridges, C. B. Cox, Clanton, \$52,440; paving, Morgan-Hill Construction Co., Birmingham, \$229,814.\*

Ala., Florence — State Highway Comm., Montgomery, let contract to Uvalde Paving Co., 760 S. Lamar St., Dallas, Tex., for 5 mi. rock asphalt on bituminous base, and 2.2 mi. chert surface on road between Florence and Killen.\*

Ala., Ensley—Ensley Realty Board, M. H. McDowell, Pres., plans linking several boulevards leading into Ensley, including paving Seventeenth St. to St. Joseph's Catholic Church, to Ave. D; approximate cost \$50,000; also contemplates paving street connecting Brown Blvd., at point near Central Park Highlands with Nineteenth Ave.

Ala., Montgomery — Stuart E. Washburn, City Engr., receives bids Jan. 22 to pave N. Lewis and Lassiter Sts., from Madison Ave. to upper Wetumpka road.

Ark., El Dorado—Arkansas-Louisiana Div. of Pershing Highway, organized with Stanley Andrews, Editor of News, El Dorado, Pres.; Luther Ellison, Sec., Russton Chamber of Commerce, Sec.-Mgr., interested in completing hard-surfaced road between El Dorado and Junction City.

Ark., Fayetteville—State Highway Dept., Little Rock, plans hard surfaced road from Fayetteville to Oklahoma State line at Westville.

Ark., Springdale—City plans extending paving on Emma Ave. to intersection of Thompson St. Address City Clk.

Ark.-Tex., Texarkana—City plans paving Ferguson St. in College Hill Addition, from Dudley Ave. to Country Club; Geo. T. Conway, Mayor.

D. C., Washington—Details under Bridges, Culverts, Viaducts.

Fla., Bartow—City Comm. plans paving S. Floral St. from Stuart south; Stuart St. from Broadway to Dudley; Swearingen, in Oakland subdivision, from Gibbons to Georgia; also Wilson Ave. from Pearl to Vine; Willis Bradley, City Clk. and Auditor.

Fla., Boynton—Details under Land Development.

Fla., Bradenton—Manatee County Commrs. plan building 6 roads; will vote Feb. 25 on bonds.\*

Fla., Coconut Grove—Details under Land Development.

Fla., De Land—De Land Commercial Club, Earl W. Brown, Sec., interested in completing 8 mi. State Road No. 3 from City limits to De Leon Springs.

Fla., Haines City—Details under Land Development.

Fla., Haines City—City plans widening Jones and Sixth Sts. Address City Engr.

Fla., Jacksonville—Details under Land Development.

Fla., Lakeland—Details under Land Development.

Fla., Miami—City, F. H. Wharton, Mgr., plans street widening, will vote Jan. 29 on \$100,000 bonds; plans street paving, and sidewalks, contemplates \$840,000 bond issue.\*

Fla., Miami Beach—City contemplates paving Washington Ave. to width of 74 ft. most of its length. Address City Engr.

Fla., Ocala—City let contract to Hayes & Lewis, Jackson, Miss., to lay 26 mi. street curb and gutters.\*

Fla., Ocala—Details under Land Development.

Fla., Orlando—City plans laying sidewalks in business sections. Address City Clk.

Fla., Palmetto—City plans street improvement; will sell bonds. Address City Clk.; let contract to Henry R. Curry, Bradenton, to widen roadway of Main St. from river to

Elm St. from 8 ft. to 54 ft., vitrified brick; Kirby & Webb, Engrs., Bradenton.

Fla., Panama City—City, Mayor Wilson, plans building road from Harrison Ave., to St. Andrews line at Panama City cemetery; let contract to J. R. Asbell to lay sidewalks.

Fla., Sarasota—Details under Land Development.

Fla., Sarasota—Sarasota County Commrs. will receive bids Feb. 2 to furnish labor, materials and equipment to improve or build 9 roads: 3500 ft. Blackburn Point road, 3500 cu. yds. excavation, 3500 sq. yds. 6-in. rock base and surface treatment; 13.5 mi. Sugar Bowl road, 90,000 cu. yds. excavation, 72,000 sq. yds. 6-in. rock base and surface treatment, 280-ft. standard wooden trestle; 2.5 mi. Madison road, 5000 cu. yds. excavation, 5000 sq. yds. 6-in. rock base, 13,000 sq. yds. surface treatment; 4.1 mi. Bee Ridge road from Bee Ridge to Hawkins, 20,000 sq. yds. excavation, 22,000 sq. yds. 6-in. rock base and surface treatment; 1.85 mi. Hancock road from Verna road to Myakka road, 6000 cu. yds. excavation, 9505 sq. yds. 6-in. rock base and surface treatment; 11 mi. Myakka road, 70,000 cu. yds. excavation, 55,000 sq. yds. 6-in. rock base and surface treatment; .25 mi. Stickney Bridge Key road from west end Stickney Bridge to Siesta road, 1500 cu. yds. excavation, 1400 sq. yds. 8-in. shell base; 2.5 mi. Crescent road, 8000 cu. yds. excavation, 11,500 sq. yds. 8-in. shell base; 3200 ft. Stickney Point road, 3000 cu. yds. excavation, 3200 sq. yds. 6-in. rock base surface treatment; 7.5 mi. Siesta road, from west end of Siesta Bridge to south end of Little Sarasota Key, 30,000 cu. yds. excavation, 47,000 sq. yds. 8-in. shell base; plans, etc., from County Engr.; G. B. Prince, Chmn.\* Lately noted bids under Dec. 27.

Fla., St. Petersburg—Details under Land Development.

Fla., South Jacksonville—City plans paving streets and developing parks; may vote March 4 on \$149,000 bonds; E. Jackson Butler, City Clk.

Fla., Tampa—Details under Land Development.

Fla., Tavares—Florida Home & Investment Co. plans 5 mi. clay roads on Lake Dora south; first section of 2 mi. from Tavares-Clermont road, over Lake Dora property; second section, 1½ mi., circling Lake Newark; additional mile along shore of Lake Dora to become part of South Dora Blvd.

Fla., Titusville—State Road Dept., Tallahassee, will receive bids Feb. 5 for 7.69 mi. State road No. 24, Brevard County, from Osceola County line to St. John's River, Florida lime rock base, on prepared subgrade; plans, etc., on file and from Div. Engr.; J. L. Cresap, State Highway Engr.

Fla., Vero—City plans road development and improvement in Fifth Commrs. Dist.; contemplates \$250,000 bond issue. Address E. J. Sellard, Sec. Chamber of Commerce.

Fla., Winter Haven—Details under Land Development.

Ga., Atlanta—Fulton County Comm. plans expending \$1,000,000 to improve 4 roads: 3 mi. North Side Drive; extend concrete on Pinkhead Highway from present paving to Bellwood; grade Wesley Ave. to Piedmont road on east and Moore's Hill road on west; concrete Lawton St. to connect Oakland City with East Point; city and County Commrs. will grade and pave Madison Ave. from Terminal station to Whitehall St.; Virlyn B. Moore, Chmn., County Comm.

Ga., Savannah—City let contract to W. J. Burney, 214 Estill Ave., for street grading and other improvements at Oakhurst, about 2½ mi. from city limits. Address City Clk.

Ky., Carrollton—City will receive bids Jan. 26 to improve High, Fifth, Court and Main Sts.; plans, etc., from J. E. Gullmin, Mayor, and A. A. Krieger, City Engr.

Ky., Pineville—Details under Land Development.

Ky., Whitesburg—Letcher County Fiscal Court plans completing highway building; will vote March 21 on \$200,000 bonds. Address County Commrs.

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received low bids for 4 roads: Morehouse Parish, 7.43 mi. Bastrop-Arkansas State Line Highway between Mer Rouge and Bastrop, Tansey-Cavett Construction Co., Shreveport, \$40,769; Vernon Parish, 16.13 mi. Leesville-Natchitoches Highway from Leesville to Natchitoches Parish line, Alexandria Construction Co., \$103,926; Winn Parish, 6.4 mi. Winnfield-Olla Highway, from Winnfield toward Olla, F. D. Harvey & Co., 688 Bellevue St., Memphis, \$28,517; Ouachata Parish, 3.598 mi. hard surfaced road from Monroe towards Sicard, Meyer Greenwald Construction Co., Monroe, \$106,421.\*

La., Baton Rouge—Details under Land Development.

La., Crowley—Acadia Parish plans building and maintaining dirt roads in Fifth Ward. Address Police Jury.

La., Jennings—Jefferson Davis Parish plans road building; voted \$75,000 bonds. Address Parish Police Jury.

Md., Baltimore—City plans 100-ft. boulevard from Overlea to point ½ mi. west of Old Harford road, to be known as Northern Parkway; Howard W. Jackson, Mayor; Stuart Purcell, Ch. Engr.

Md., Frederick—State Roads Comm., 601 Garrett Bldg., Baltimore, let contract to R. B. Poffinberger, Myersville, at \$17,145, to pave with concrete .61 mi. road from Ellerton toward Grossnickle, Frederick County.

Missouri—State Highway Dept., Jefferson City will receive bids Jan. 31 for 12 roads: Oregon County, 1.454 mi. 30-ft.; graded earth from Thayer south, 16,575 cu. yd. earth and rock excavation; Andrews County, 2.936 mi. 30-ft. graded earth from Savannah west, 42,585 cu. yd. earth excavation; Lewis County, 3.864 mi. 16-ft. gravel surfacing from Canton to Monticello, 48,283 cu. yd. earth and rock excavation, 36,124 sq. yd. gravel surfacing; Texas County, 1.614 mi. 30-ft. graded earth from Summerville to Mt. View, 22,254 cu. yd. earth and rock excavation; Livingston County, 3.454 mi. 30-ft. graded earth, from St. Joseph to Hannibal 27,192 cu. yd. earth excavation; Ozark County, 2.596 mi. 12-ft. gravel surfacing from Gainesville east, 18,331 sq. yd. gravel surfacing; Scott County, 2.257 mi. 16-ft. gravel surfacing from Siehlstadt south, 17,337 cu. yd. earth excavation, 21,407 sq. yd. gravel surfacing; Johnson County, 4.898 mi. 30-ft. graded earth from Warrensburg to Higginsville, 58,034 cu. yd. earth and rock excavation; Buchanan County, 2 sections from St. Joseph to Grayson, 4.711 mi. 18-ft. penetration macadam, asphaltic concrete, or rock asphalt, 49,580 sq. yd. surfacing; 4.711 mi. earthwork, 9390 cu. yd. earth excavation; Carter County, 2 sections from Elsinore south; 3.094 mi. 12-ft. gravel surfacing, 21,685 sq. yd. surfacing; 4.489 mi. 12-ft. gravel surfacing, 31,821 sq. yd. surfacing; B. H. Piepmeier, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, will receive bids Jan. 31 for 19 roads: Cedar County, .936 mi. 12-ft. gravel surface from Stockton to Fairplay, 18,000 cu. yds. earth and rock excavation, 6590 cu. yds. gravel pavement; Clark County, 3.995 mi. 20-ft. gravel surface from Wayland south, 4149 cu. yds. gravel; Livingston County, 4.032 mi.



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Polk County, 2 sections: 4.381 mi. 16-ft. gravel surfacing, from Fairplay to Bolivar, 36,290 cu. yds. earth and rock excavation; 2.197 mi. 12-ft. gravel surfacing from Stockton to Fairplay, 13,991 cu. yds. earth and rock excavation, 15,565 cu. yds. gravel pavement; Grundy County, 2 sections from Edinburg west, 2.423 mi. earthwork, 9192 cu. yds. earth excavation; 2.423 mi. 18-ft. penetration macadam, rock asphalt, asphaltic concrete, 55,688 sq. yds. surfacing; 2 sections from Edinburg to Trenton; 3.351 mi. earthwork, 42,138 cu. yds. earth and rock excavation; 3.251 mi. 18-ft. penetration macadam, rock asphalt or asphaltic concrete, 35,515 sq. yds. surfacing.

In Clinton County, 8 sections from St. Joseph to Grayson; 3.001 mi. earthwork, 5788 cu. yds. earthwork; 3.001 mi. 18-ft. penetration macadam, rock asphalt or asphaltic concrete; 2.685 mi. earthwork, 5290 cu. yds. earth excavation; 2.685 mi. 18-ft. penetration macadam, rock asphalt or asphaltic concrete, 27,930 sq. yds. surfacing; 3.975 mi. earthwork, 17,864 cu. yds. earthwork; 3.975 mi. 18-ft. penetration macadam, rock asphalt or asphaltic concrete, 40,255 sq. yds. surfacing; 1.715 mi. earthwork, 4265 cu. yds. earth excavation; 1.715 mi. 18-ft. penetration macadam, rock asphalt or asphaltic concrete, 18,114 sq. yds. surfacing; B. H. Piepmeyer, Ch. Engr.

Miss., Aberdeen—City plans street paving. Address City Engr.

Miss., Grenada—Grenada County, Dist. No. 4, plans graveling highways in Dist.; will vote Jan. 31 on \$40,000 bonds. Address County Comms.

Miss., Hattiesburg—Forrest County Board of Suprvs. plan paving in Road Paving Dist. No. 1; J. L. Whells, County Engr.

Miss., Meridian—Board of Suprvs. plan 1 mi. hard surfaced street through Asylum Heights, suburb of Meridian.

Miss., Woodville—Wilkinson County contemplates building road between Woodville and Louisiana line; may issue bonds. Address Board of Suprvs.

Mo., Cape Girardeau—City plans letting contract Mar. 15 for street paving. Address City Engr.

Mo., Charleston—Mississippi County Court approved building road from East Prairie, to point south of Dorena, on banks of Mississippi River. Address County Comms.

Mo., Springfield—State Highway Dept., Jefferson City, plans concrete paving on State Highway from Galloway to foot of Red Clay Hill, near James River; H. P. Moberly, Div. Engr., interested.

North Carolina—State Highway Comm., will receive bids Jan. 27 for 2 roads and 2 bridges: Wayne County, 13.77 mi. road between Goldsboro and Wilson County line, 90,000 cu. yd. common and borrow excavation, 128,550 sq. yd. plain or reinforced concrete surfacing, 112,750 sq. yd. bituminous surfacing, also bridge, 109,600 lbs. reinforcing steel; Iredell County, 11.14 mi. from Turnersburg to Yadin County line, 96,100 cu. yd. common, borrow and solid rock excavation, 116,300 sq. yds. plain or reinforced concrete surfacing, 103,380 sq. yd. bituminous surfacing, also bridge, 200,000 lbs. reinforcing steel; plans, etc., from Senior Highway Engr., Raleigh, or Dist. Engr.

N. C., Asheville—Buncombe County Com-

ms. will receive bids Jan. 27 to grade 35,000 cu. yds. Long Shoals road from Long Shoals Bridge via West's store to Shut In, or near Bent Creek; plans, etc., on file and from County Engr.; E. M. Lyda, Chmn.

N. C., Kernersville—City will receive bids Feb. 25 for about 40,000 yds. paving; Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte.

N. C., Rutherfordton—Town Board let contract to Greenwood Concrete Co., Greenwood, S. C., at \$1.48 per sq. yd. for 20,000 sq. yds. cement sidewalks.\*

N. C., Spencer—Board of Aldermen interested in building 50-ft. asphalt highway connecting Spencer and Salisbury.

N. C., Wilson—Wilson County Comms. plan improving public highways; contemplate calling election on \$1,250,000 bonds.

N. C., Winston-Salem—Details under Land Development.

Okla., Eufaula—McIntosh County let contract to Dougherty-Nichols Construction Co., Equity Bldg., Muskogee, at \$48,000 to brick surface Jefferson Highway through Checotah.

Okla., Fairfax—City let contract to L. R. Moran, Oklahoma City, at \$79,857, for street paving.

Okla., Kingfisher—Kingfisher County plans road building; will vote Feb. 24 on \$700,000 bonds. Address County Comms.

Okla., Oklahoma City—Oklahoma County Comms. contemplate extending W. First St. or Mulligan Blvd.; also constructing steel bridge over Canadian River at Mulligan Gardens.

Okla., Pauls Valley—Garvin County plans building hard-surfaced road from north line of County, through Pauls Valley and Wynnewood to Murray County hard-surfaced road; voted \$720,000 bonds.

Okla., Stilwell—Adair County contemplates building road from Bunch to Marble City. Address County Comms.

S. C., Bamberg—Bamberg County Comms., let contract to J. F. Cleckley, Cope, at \$8038 for 1.953 mi. sand-clay surface on Charleston-Augusta Highway, State Highway No. 27, from eastern limits to western limits of Bamberg.\*

S. C., Dillon—Dillon County Comms., let contract to W. B. Boyle Co., Sumter, at \$46,099 for 8.376 mi. surfacing on Nichols-Lake View road.\*

S. C., Greenville—State Highway Dept., Columbia, let contract to Henry Construction Co. Emaxee Bldg., Greenville, at \$131,186 to pave 4.754 mi. Greenville-Columbia road from Greenville to Maudlin.\*

S. C., Laurens—Laurens County Highway Comm., contemplates building 3 roads: Watts Mills-Yarborough, 6 mi. Augusta Road-Ware Shoals, and Musgrove-Belfast road; P. F. Patton, County Highway Engr.

S. C., Newberry—City will receive bids Feb. 3 for 60,000 sq. yds. street paving and storm drainage; plans, etc., on file or from Harwood Peebe Co., Engrs., Spartanburg, S. C.; J. W. Chapman, Clk. & Treas.

S. C., Orangeburg—Orangeburg County Highway Comm., let contract to C. G. Frank, Bamberg, at \$52,225 for 13.85 mi. sand-clay surface on Columbia-Savannah Highway.\*

S. C., York—York County Permanent Roads Comm., plans building 4 roads: From York to Rock Hill, York to Clover, through Clover to corporate limits on north; from York to Sharon, through Sharon to western limits;

from Rock Hill south to Chester County line; contemplates completing 5 roads: From Fort Mill, to and through Fort Mill to North Carolina line; from York to Chester County line, through McConellsville; from Clover to North Carolina line; from Sharon, through Hickory Grove to Cherokee County line; from Rock Hill east through Lesslie and Rodneys to Chester County line; Lee, Murray, Palmer & Brown, Engrs., Greensboro, N. C., and Sumter, S. C.

Tenn., Copper Hill—City plans paving various streets; contemplates voting on \$100,000 bonds. Address City Clk.

Tenn., Dyersburg—Dyer County Quarterly Court plans surfacing 30 mi. present macadam roads, and grade, build concrete culverts and bridges and gravel surface 20 mi. road from Crockett County line to Lake County; contemplates \$150,000 bond issue.

Tenn., Kingsport—City plans paving portions of Reedy and Roller Sts., in Improvement Dist. No. 27, and widening Sullivan St. between Cherokee St. and Plaza, in Improvement Dist. No. 6A. Address City Clk.

Tenn., Kingsport—City, F. L. Cloud, City Mgr., will receive bids Feb. 3 for improvements in Dist. No. 27: 2000 cu. yds. earth excavation, 6500 sq. yds. concrete paving, 1250 sq. yds. concrete sidewalks, 910 lin. ft. 6 and 8-in. sanitary sewers, manhole, 2 catch basins, 60 lin. ft. 12-in. storm sewer, and 70 cu. yd. concrete box culvert construction; plans, etc., from City Engr.

Tenn., Memphis—Details under Land Development.

Tex., Alpine—Brewster County will receive bids soon for 5.13 mi. State Highway No. 3; A. L. White, County Engr.

Tex., Baird—Callahan County will receive bids on Jan. 30 for 2 sections of roads: Grade and bridge 8.39 mi. State Highway No. 1, between Clyde and Taylor County line, 61,007 cu. yds. earth roadway, loose and solid rock, excavation and borrow, 30,253 lbs. reinforcing steel, also bridge over 20-ft. span, 11,066 lbs. reinforcing steel; grade and bridge .757 mi. State Highway No. 1 from Baird to point west of Baird Hill toward Clyde, 10,109 cu. yds. earth roadway, loose and solid rock excavation and borrow, 3316 lbs. reinforcing steel; T. H. Webb, County Engr.; Victor B. Gilbert, County Judge.

Tex., Beaumont—City plans street improvement; will vote in Feb. on \$150,000 bonds; Ollie J. Bloyd, City Mgr.

Tex., Boston—Bowie County will receive bids Feb. 10 to grade and bridge 3 roads: 3.31 mi. concrete pavement on State Highway No. 47, north of Texarkana; 3.39 mi. concrete pavement on State Highway No. 47 north of Texarkana, between Texarkana and Index; 8.4 mi. 18-ft. concrete on State Highway No. 47, Texarkana-Atlanta road, from Texarkana to Cass County line, at McCartney's Bridge, approximate cost \$315,000; D. K. Caldwell, County Engr., Road Dist. No. 1, Texarkana; S. J. Robinson, County Engr.

Tex., Cameron—H. J. Evans, 500 W. 15th St., Austin, was awarded contract at \$13,052 to grade and gravel Sprinkle-Cameron road.

Tex., Carrizo Springs—Dimmitt County let contract for 2 roads: Sec. C, grade, bridge and surface 12.27 mi. State Highway No. 85 through Carrizo Springs, Buchanan & Veazy, Temple, \$97,416; Sec. D, grade, bridge and surface with caliche 11.60 mi. State Highway No. 85, from Maverick County line east to connect with Sec. C, D. H. Buchanan, Temple, \$102,146.\*

Tex., Dallas—Details under Land Development.

Tex., Dallas—City plans widening Bryan St. from Pacific Ave. to Pearl St.; Live Oak from St. Paul to Liberty and open Lloyd St.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

from Commerce to Williams; R. A. Wylie, Street Commr.

Tex., El Paso—El Paso County will receive bids Feb. 10, tentative date for, 15.62 mi. State Highway No. 1, between Ysleta and Fabens, concrete extensions to present base, with about 2-in. limestone rock asphalt (hot mix) surfacing, 7579 cu. yd. roadway excavation, 14,657 tons limestone rock asphalt (hot mix), alternate bids on Warrenite bitulithic, Willite process, sheet asphalt, national pavement wearing surface; F. E. Wilson, County Engr.; E. B. McClintock, County Judge.\*

Tex., Fairfield—Freestone County will receive bids Feb. 17, tentative date to grade and bridge 3 roads: 6.59 mi. State Highway No. 7, between Fairfield and Turlington, 59,695 cu. yd. roadway and dry earth structural excavation and borrow, 24,619 lbs. reinforcing steel; 4.27 mi. State Highway No. 14, Mexia-Richland road, between Limestone County line and Navara County line, 21,391 cu. yd. roadway and dry structural excavation, and borrow, 6057 lbs. reinforcing steel; 15.62 mi. State Highway No. 7, between Turlington and Trinity River; J. E. Johnson, County Engr.; J. F. Roper, County Judge.\*

Tex., Fort Worth—City Comn. will receive bids Jan. 27 to pave Hillcrest Ave. from Bryce to El Campo Ave., Arlington Heights, and Ave. K from Vaughn to Mackey Sts., in Polytechnic.

Tex., Galveston—Chamber of Commerce, R. C. Stone, Pres., interested in paving Thirtieth, Thirty-fifth, Thirty-first, Seventeenth or Eighteenth, Twelfth or Fourteenth Sts. from Broadway to Boulevard.

Tex., Hebbornville—Jim Hogg County will receive bids about Feb. 1 to grade, construct bridges and caliche surface 10 mi. State Highway No. 12, between Webb County line and Hebbornville; estimated cost \$65,000; A. M. Brumfield, County Judge.

Tex., Houston—City received low bids from J. M. Griswold, 2818 Caroline St., to gravel Buffalo Bayou Drive from City Park to Shepherd Drive; Scott Shambaugh, 203 Larendon Bldg., Houston, at \$63,601, to pave Rice Blvd., from Sunset Blvd. to S. Heinemann St.; Sherman Jones Construction Co. to top San Felipe road from Shepherds Dam to city limits; Chas. K. Horton, Box 1394, Houston, for sanitary sewers in Oak Lawn Addition; O. F. Holcombe, Mayor.\*

Tex., Jacksboro—Jack County will receive bids Jan. 30 to grade and bridge 12.80 mi. State Highway No. 25, Archer City road, from Jacksboro to Lynn Creek, 104,970 cu. yd. roadway, solid and loose rock, borrow and channel excavation, 183,754 lbs. reinforcing steel; Guy R. Johnston, County Engr.; H. C. McClure, County Judge.

Tex., Kaufman—Kaufman County let contract to J. L. Moore, Kemp, at \$17,695, to grade 11.2 mi. State Highway No. 4; J. E. Yates, County Auditor.

Tex., Palestine—Anderson County plans 9.75 mi. 18-ft. concrete pavement on State Highway No. 19, from Palestine to Elkhart; will receive bids soon for grading and bridges; Edw. W. Davis, County Engr.; W. C. Quick, County Judge.

Tex., Pecos—Reeves County will receive bids Feb. 13 to grade and construct 2 concrete bridges on State Highway No. 1, 44,480 lbs. reinforcing steel; S. S. Posey, Res. Engr.; Geo. H. Rucker, County Judge.

Tex., San Benito—San Benito & Rio Grande Ry. Co. let contract to W. H. Nichols & Co., Inc., Mercantile Bank Bldg., Dallas, at \$49,081 to grade and bridge 15 mi. road between end of track near Hidalgo and Santa Maria.

Tex., Sanderson—Terrell County will re-

ceive bids soon to grade and bridge 7.7 mi. State Highway No. 3, from Val Verde County line west, approximate cost \$78,000; John Stovell, County Engr.; G. J. Henshaw, County Judge.\*

Tex., Sonora—Sutton County will receive bids Feb. 17 for 3 sections of roads: 7.86 mi. State Highway No. 27, including grading and bridging .98 mi. gravel, surface 2.43 mi. and surface with crushed stone 4.45 mi.; 10.84 mi. State Highway No. 27, including 5.21 mi. grading and drainage structures and 5.23 mi. grading, bridges and crushed stone surfacing; 11.25 mi. State Highway No. 27, including 5.19 mi. grading, bridges and 18-ft. gravel surface and 6.06 mi. grading, bridges and 18-ft. crushed stone surfacing; H. P. Stockton, County Engr.; Alvin Johnson, County Judge.

Tex., Sulphur Springs—Hopkins County let contract to Dean Word, Itasca, Tex., at \$65,629, to grade and construct bridges on 15.62 mi. State Highway No. 11, from Sulphur Springs to Hunt County line.\*

Tex., Texarkana—City plans paving portion of State Line Ave., between postoffice building and Seventh St.; Otto Yenglin, City Engr.

Tex., Tyler—Smith County plans 16.33 mi. 16-ft. gravel, Highway No. 64, between Tyler and Arp, estimated cost \$157,500; D. K. Caldwell, County Engr.; D. R. Pendleton, County Judge.

Tex., Vernon—Wilbarger County plans 6 mi. 18-ft. concrete pavement on State Highway No. 28, estimated cost \$160,000; John B. Nabors, County Engr.; O. T. Warlick, County Judge.

Tex., Waco—Details under Land Development.

Tex., Waco—City Comn. plans additional street paving; contemplates about \$250,000 bond issue.

Virginia—State Highway Comn., Richmond, received low bids for 2 roads and one bridge: Prince Edward County, .776 mi. concrete from Farmville to point west, Weinbrunn & Carpenter, 1015 N. Sixth St., Richmond, \$22,459; Lunenburg County, .899 mi. concrete streets in Kenbridge, W. P. Thurston Co., Inc., Eleventh and Bank Sts., Richmond; Greensville County, 288-ft. 9-in. bridge over Meherrin River at Emporia, Small & Triplett, Box 62, Morristown, Tenn.\*

Va., Richmond—City will receive bids this week to grade sidewalks on Twenty-eighth St. from Nine Mile road to Corporation Line; R. Keith Compton, Director of Public Works.

W. Va., Bluefield—City Board of Directors, has tentative plans for 2 mi. paving, including re-paving Princeton Ave. from Lee St. to east city limits. Address City Mgr. Ridley.

W. Va., Moundsville—Marshall County plans building road in Washington Dist.; will vote Feb. 10 on \$100,000 bonds; A. Purdy, Engr.\*

### Sewer Construction

Ala., Birmingham—Details under Road and Street Construction.

Ark., Gurdon—Details under Water Works.

Fla., Jacksonville—Details under Land Development.

Fla., Lakeland—Details under Land Development.

Fla., South Jacksonville—Details under Land Development.

Fla., Tampa—Details under Land Development.

Fla., Vero—Details under Water Works.

Fla., Vero—City contemplates installing sanitary sewers. Address The Mayor.

Ky., Pineville—Details under Land Development.

Md., Baltimore—Board of Awards let contract to F. Angelozzi, 238 Albemarle St., at \$32,072 for sewers in Sewer Dist. H-6-1 and at \$10,406 to Arundel Construction Co., Knickerbocker Bldg., for sewers in Sewer Cont. 4.\*

Md., Cumberland—City will install sewer on Oak St. Address City Clk.

Fla., Miami—City, F. H. Wharton, votes Jan. 29 on \$100,000 sewer bonds; also contemplates additional expenditure of \$660,000 for sewers.\*

N. C., Roseboro—City voted \$85,000 sewer and water bonds. Address City Clk.\*

N. C., Siler City—City, J. S. Wrenn, Mayor, opens bids Feb. 3 for construction of sewer and water works system; Spoon & Lewis, Engrs., Greensboro. (See Machinery Wanted—Water and Sewer System.)

N. C., Winston-Salem—Details under Land Development.

Okla., Pittsburg—City is having plans prepared for sanitary sewer; \$27,000 available. Address City Clk.

Okla., Wewoka—City will vote Jan. 21 on \$50,000 sewer bonds; Guy Cutlip, Mayor.\*

S. C., Newberry—Details under Road and Street Construction.

Tenn., Memphis—Details under Land Development.

Tex., Crowell—City, C. T. Schlagel, Mayor, votes Jan. 27 on \$50,000 bonds for installation of sewer system.

Tex., Dallas—Details under Land Development.

Tex., Fort Worth—City Comn. will soon receive bids for construction of storm sewer at Bryce and Helen Sts.

Tex., Houston—Details under Road and Street Construction.

Tex., Mission—City, J. M. Williamson, Sec., receives bids Jan. 22 for sanitary sewer line and disposal plant; Ewing & Congdon, City Engrs. (See Machinery Wanted—Sewer System.)

Tex., San Benito—City will receive bids after Jan. 20 for extensions to sewer system, including 16,530 ft. of 6-in. pipe sewers, and 34 manholes, 2 sewage lift pumps and gravel filter bed, etc; Agar & Gentry, Engr., San Benito.

Tex., Waco—Details under Land Development.

Tex., Weslaco—City votes Feb. 9 on \$25,000 bonds for sanitary sewer system including complete collecting and distributing system; H. E. Bennett, Engr., Mercedes.

Va., Richmond—Details under Land Development.

### Telephone Systems

Fla., Jacksonville—Details under Land Development.

Fla., Winter Haven—Details under Land Development.

N. C., Durham—Interstate Telephone & Telegraph Co. contemplates installing dial telephone system; estimated cost \$200,000.

S. C., Greenville—Western Electric Co. is installing equipment in the Central Telephone Office, estimated cost \$125,000; work to be finished about April 1; G. L. McCullough, Dist. Mgr., 108 W. Earle St.

S. C., Maggetts—South Carolina Produce Assn. reported to soon establish telephone line on Edisto Island.

Tenn., Nashville—The Cumberland Telephone & Telegraph Co. applied to the Interstate Commerce Comn. for authority to acquire properties of the Sun Telephone & Telegraph Co., the Southern Telephone &

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



Telegraph Co. and the Stationville Telephone & Telegraph Co., operating telephone exchanges in Tennessee, Mississippi and Alabama.

Tex., Houston—Southwestern Bell Telephone Co., main office St. Louis, Mo., has plans for 7-story addition to its Preston exchange at San Jacinto and Capitol Sts.; will probably soon invite bids; W. G. Winters, Division Supt.

### Textile Mills

Ala., Atmore—Fred Beatty and associates reported planning erection of cotton mill.

Ga., Elberton—George C. Bell, Engr., Charlotte, N. C., investigating possible location of textile mill for client.

N. C., Durham—Chamber of Commerce is negotiating with outside capitalists who plan establishment of novelty weaving mill.

N. C., Gastonia—W. T. Love, S. A. Robinson and J. B. Reeves reported to have acquired Priscilla Spinning Mills at Randle.

N. C., Pittsboro—The Pompton Lakes Weaving Co., of Pompton Lakes, N. J., reported to establish plant for manufacture of silk ribbons, etc.

Okla., Guthrie—Pioneer Cotton Mills, 1300 McC. Ave., reported to install additional machinery.

S. C., Gaffney—Sultrene Mills, capital \$10,000, incorporated by J. W. Boland, R. A. Dobson; will establish knitting mill.

S. C., Greenville—Lullwater Manufacturing Co., East Point, Ga.; Walter T. Candler, Pres., reported to enlarge textile mill, doubling capacity, cost \$100,000.

Tenn., Chattanooga—Smith Hosiery Mills reported to enlarge plant.

Tenn., Franklin—Thomas B. Johnson reported interested in establishment of textile mill.

Va., South Boston—Halifax Cotton Mills, W. A. McCanliss, will erect additional unit to mill and install 4000 spindles.

### Water Works

Ark., Gurdon—Hayden Construction Co., Millsaps Bldg., Jackson, Miss., has contract for construction of water and sewer system.

Ark., Paris—City is considering enlargement of water works system; cost about \$45,000; Ford & McRae, Engrs., Gazette Bldg., Little Rock.

Ark., Texarkana—C. H. Geist Co., 215 S. Broad St., of Phila., Pa., acquired controlling interest in Texarkana Water Corp.

Fla., Jacksonville—Details under Land Development.

Fla., Lakeland—Details under Land Development.

Fla., Miami—City, F. H. Wharton, Mgr., votes Jan. 29 on \$250,000 water works bonds.\*

Fla., Palmetto—City will vote Feb. 9 on \$50,000 bonds for water extension. Address City Clk.

Fla., South Jacksonville—Details under Land Development.

Fla., Tampa—Details under Land Development.

Fla., Vero—City contemplates enlargement to water and light plant; Harry Damerow, Supt. Water Dept.

Fla., Winter Haven—Details under Land Development.

Ky., Pineville—Details under Land Development.

La., Baton Rouge—City Comsn. Council, will receive bids Jan. 29 for construction

of pumping station at University Lake; J. W. Billingsley, Conslt. Engr., City Hall. (See Machinery Wanted—Pumping Station).

La., Colfax—City will soon call for bids for construction of \$45,000 water works system; F. P. Joseph, Conslt. Engr., Glenmora.

La., Jonesville—Town will vote Jan. 27 on \$40,000 water works and electric light bonds; F. P. Joseph, Conslt. Engr., Glenmora.

La., Mansura—City will soon call for bids for construction of \$65,000 water works and electric system; F. P. Joseph, Conslt. Engrs., Glenmora.\*

Md., Salisbury—Abel Wolman, Ch. Engr. State Board of Health, 16 W. Saratoga St., Baltimore, is making survey of city, preparatory to installing water system; \$500,000 available.\*

Mo., St. Louis—Board of Public Service received low bid at \$1,800,000 from Hay's Co., Detroit, Mich., for construction of the 16 mile pipe line from Missouri River water-works at Howard's Bend to the city.\*

N. C., Roseboro—City voted \$85,000 water and sewer bonds. Address City Clk.\*

N. C., Siler City—City, J. S. Wrenn, Mayor, opens bids Feb. 3 for construction of water and sewer system; Spoon & Lewis, Engrs., Greensboro. (See Machinery Wanted—Water and Sewer System.)

N. C., West Jefferson—City, James Allen, Mayor, receives bids Feb. 18 for water works improvements; The Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte; G. H. Bishop, Engr. (See Machinery Wanted—Water Supply System.)

N. C., Winston-Salem—Details under Land Development.

Okla., Duncan—City Comsn. rejected bids for construction of deep well on city property; will readvertise for bids.

S. C., Chesnee—City voted \$50,000 water work bonds. Address The Mayor.\*

Tenn., Huntingdon—Details under Electric Light and Power Plants.

Tenn., Memphis—Details under Land Development.

Tex., Amarillo—City will vote April 7 on \$1,750,000 water bonds. Eugene Blasdel, Mayor.

Tex., Brady—City votes Feb. 3 on \$100,000 water extension bonds. Address The Mayor.

Tex., Corpus Christi—City Council retained N. Warensfield, Engr., Marvin Bldg., Dallas, to prepare plans, etc., for complete filtration and pumping equipment at city water plant at Callallen; reservoir will have capacity of 2,000,000 gals. daily; cost about \$100,000.\*

Tex., Dallas—Details under Land Development.

Tex., Goree—Douglas and Mitchell, Engrs and Contrs., Wichita Falls, will construct water works system; cost \$35,000.\*

Tex., Houston—City, F. O. Holcomb, Mayor, will let contract March 2 for construction of 10,000,000 gal. reservoir; Wm. R. Holway, Water Engr. is preparing plans for reservoir also for dual power system for water works; will vote Feb. 28 on \$500,000 bonds.\*

Tex., Paducah—City, P. E. Godfrey, Sec., will open bids Feb. 16 for extension of water works, flow line for developing new water supply; storm sewer; sanitary sewer system; disposal plant and paving; Gantt-Baker Co., Engrs., 1110 W. Main St., Oklahoma City. (See Machinery Wanted—Water Works, etc.)

Tex., San Antonio—City, S. F. Crecelius, Flood Protection Engr., 304 City Hall, will plan and supervise construction of Olmos Creek Detention dam; gravity type, 80 ft. high, 2,000 ft. long; cost \$2,200,000; plans will probably be ready about April.\*

Tex., Waco—Details under Land Development.

### Woodworking Plants

Ark., Little Rock—Little Rock Excelsior & Wrapper Manufacturing Co., 1800 E. Tenth St., A. K. Goodnight, Pres., will probably rebuild plant at 1800 E. Tenth St., burned at loss of \$50,000.

Fla., Ocala—Marion Basket Co., capital \$10,000, incorporated with J. W. York, Pres.; E. H. Martin, Sec.

Ky., Paducah—Details under Railway Shops, Terminals, Roundhouses, etc.

Ky., Paintsville—Mountain Furniture Co., capital \$50,000, incorporated by J. L. Preston, J. H. Pelphrey and G. W. Preston.

Md., Baltimore—Morgan Millwork Co., 113 W. North Ave., increased capital from \$200,000 to \$600,000.

N. C., Greensboro—Henry V. Koontz, Inc., capital \$100,000, chartered by Henry V. Koontz, A. B. High, 121 Wainman St., and F. T. Miller.

N. C., Swannanoa—Dimension Manufacturing Co., capital \$250,000, incorporated by Walter H. West, Junius G. Adams, 15 Church St., both Asheville; B. S. Colburn, Biltmore; plans erecting plant on the Black Mountain highway, to manufacture lumber and wood products; have purchased site for plant, also lay trackage to the Southern Railway line.

Va., Hampton—Brittingham Furniture Co., 53 West Queen St. Alvie W. Brittingham, Pres. and Mgr., will rebuild factory, burned at loss of \$45,000.

W. Va., Huntington—The Lewis Furniture Co., incorporated by Walter H. Lewis, 801 Fourth Ave., Samuel Samson, B. B. Gibson.

### FIRE DAMAGE

Ala., Greenville—Scott Rogers' residence.

Ark., Clarksville—Albert Lasser's residence, East Hill; loss \$6000.

Ala., Montgomery—Julian Rice's residence, Fairview Ave., loss \$40,000.

Ala., Sulligent—Kentucky Lumber Co. hotel; address A. M. Northington.

Ark., Guion—Ray Williamson's residence, owned by J. W. Williamson; loss \$12,000.

Ark., Lincoln—Jack Cox's residence near Lincoln.

Ark., Little Rock—Little Rock Excelsior & Wrapper Manufacturing Co.'s plant at 1800 E. Tenth St.

Ark., Walnut Ridge—Walnut Ridge Milling Co.'s warehouse occupied by Arkansas Commission Co.

D. C., Washington—Five-story warehouse of Kann & Sons' department store; loss \$300,000.

Ga., Atlanta—Building at 139 Whitehall St. occupied by People's Credit Clothing Co., A. Cohen, Mgr.

Ga., Cleveland—Main building of Pinnacle Mountain School, Prof. H. C. Lyons, Supt.

Ga., Hawkinsville—Building occupied by the Dixie Vulcanizing Co. and a filling station, estimated loss \$50,000; building owned by Earl Vinson, Gastonia, N. C.

Ky., Irvine—Six dwellings; John A. Wallace, Alva Oaks, Jess Noland and B. S. Griffin, owners; loss \$10,000.

Ky., Louisville—Apartments occupied by J. W. Detchen and Mrs. Minnie Kahn.

Md., Baltimore—Potato chip plant of David

Kerr at 3529 Greenmount Ave.; loss not estimated.

Md., Smoketown—Charles A. Weagley's barn and two adjoining buildings; loss \$20,000.

Miss., Greenwood—Residences of Miss Benie Stegall, owned by Greenwood Building & Loan Assn., and Mrs. Gertrude Holliday, owned by A. Davidson.

Miss., Gulfport—Walter Heath's residence.

Mo., Kansas City—Guaranty Savings & Trust Co., Hilsdon Hat Shop, Allen Shoe Co., Missouri Tailoring Co. and I. B. Dunlap's haberdashery shop on W. Ninth St.; loss \$100,000.

Mo., St. Louis—St. Louis Club building, 3663 Lindell Blvd.; loss \$100,000; address W. Frank Carter, Pres.

Mo., St. Louis—Warehouse of G. Mathes Co., Main and Madison Sts.; Joseph Mathes, Pres., 5635 Waterman Ave.

Mo., St. Louis—Mrs. J. J. Farrell's residence, Price Rd. N. of La Due Rd., St. Louis County; loss \$35,000.

N. C., Greenville—Building occupied by the Carter Cobb Motor Co., estimated loss between \$50,000 and \$60,000.

N. C., High Point—Quality Shoe store, J. L. Chernaault, propr.; loss \$25,000.

N. C., Lawndale—Cleveland Mill & Power Co.'s wheel house, power station, picker room and opening mill; loss not estimated.

N. C., Lexington—I. Guy Shoaf's residence, Tyro.

N. C., Newbern—Chas. L. Abernethy's residence.

Okla., Blackwell—Warehouse in Tonkawa field owned by Comar Oil Co.; loss \$300,000.

S. C., Antreville—School building, loss \$15,000; address School Board.

S. C., Beech Island, P. O. Langley—Beech Island Lumber Co.'s mill house and engine room; estimated loss \$50,000.

S. C., Charleston—Atlantic Beach Hotel at Station 22, Sullivan's Island, owned by M. L. McCullough, and 1 cottage.

S. C., Orangeburg—Chero-Cola Bottling Co.'s plant; estimated loss \$15,000.

Tenn., Covington—The sawmill, gin and seed house of W. Simonton & Bros., estimated loss from \$8000 to \$10,000.

Tex., Brownwood—Patterson Oil Refinery; loss \$25,000.

Tex., Edna—St. Agnes' Catholic Church. Address The Pastor.

Tex., Fort Worth—Worth Building, Seventh and Main Sts., owned by John Scharbauer of Fort Worth and Midland, leased by D. F. Minner, Cotton Exchange Bldg., and occupied by Mitchell-Greer Co. store, Unity Cafeteria, A. & L. August Clothing store and Worth Barber shop; address W. C. Stonestreet; loss \$120,000.

Tex., Georgetown—Four-story woman's dormitory at Southwestern University; address President Barcus.

Tex., Hancock—School building; address the School Board.

Tex., Houston—Two dwellings, 1412-16 Stanford Ave., owned by T. E. Johnson, and Mrs. K. Browning's residence, 1420 Stanford Ave., Bakerdale addition; loss \$30,000.

Tex., Kennard—Two buildings of Farmers' Supply Co., Walter Rain's barber shop, Pete Kennedy's meat market; loss \$15,000.

Tex., Longview—Dee Piler's cotton gin; loss \$20,000.

Tex., Lubbock—Electric Bakery on Main St., owned by F. K. Mitchell; loss not estimated.

Tex., Marshall—Texas & Pacific Ry. Co.'s coach shop, electric shop, cabinet and sash shop and office, estimated loss \$1,000,000; E. F. Mitchell, Chf. Engr. of Company.

Tex., Plainview—Farmer's Elevator Co.'s plant; loss \$35,000.

Tex., Taylor—Marquette Hotel, E. Second and Porter Sts., owned by Thames Realty Co.

Tex., Tyler—A. J. Sledge's residence; loss \$8000.

Va., Appalachia—High school building; loss \$75,000; address School Board.

Va., Hampton—Brittingham Furniture Co.'s factory building, 59 W. Queen St., estimated loss \$45,000.

Va., Richmond—Printing shop of Seth Gayle at 1407 Ross St., estimated loss \$35,000.

Va., Weyer's Cave—Fitzhugh & Lee's mercantile store, Wampler's Electric House and Weyer's Cave restaurant in Carpenter Bldg.; loss \$20,000.

W. Va., Harpers Ferry—The Harpers Ferry Paper Co.'s pulp mill and electric light plant; estimated loss \$300,000.

### Damaged by Explosion

Okla., Cement—School building; address the School Board.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

Ala., Ensley—Saml. C. King, Vice-Pres. Cashr. Bank of Ensley, is interested in erection of \$200,000 Y. M. C. A. Building; dormitory, swimming pool, gymnasium, etc.; campaign for funds.

Ark., Little Rock—Knights of Ku Klux Klan will erect, improve and erect 2-story brick veneer addition to national headquarters, 18th St. and Broadway; cost \$25,000.

D. C., Washington—District of Columbia Branch, Society of First Division, A. E. F., Col. Hjalmar Erickson, Pres., care Army War College, plans to erect \$100,000 clubhouse.

Fla., Dade City—American Legion plans to erect clubhouse and community center building during 1925.

Fla., Dade City—Knights of Pythias plan to erect Pythian Castle during 1925.

Ga., Dallas—Masonic Lodge, M. N. Moon, Worshipful Master, will erect temple to replace burned structure.

Ga., Macon—Boys' Dept., Y. M. C. A., will erect permanent log cabins at Houston Factory.

Ky., Henderson—Jerusalem Lodge No. 9, A. F. & A. M., will start work about March 1 on \$125,000 Masonic Temple and office building, Second and Elm Sts.; 4 stories, 77x142 ft., mill-sprinkled construction, wood floors, concrete foundation, built-up roof, mail chutes, metal doors, wire glass, ornamental terra cotta, furnishings, equipment, etc., \$10,000; Sanders & Weinedel, Archts., 410-11 Lincoln Bank Bldg., Louisville.\*

Ky., Owensboro—W. M. Bryan, Sec., Lodge No. 144, B.P.O.E., advises erection of \$100,000 lodge building postponed indefinitely.\*

Ky., Owensboro—Young Men's Christian Assn., O. A. Rhodes, Chmn., Bldg. Comm., plans to remodel present structure or erect new building.

La., Alexandria—Ancient Free and Accepted Masons are considering erecting \$500,000 five-story temple, probably on site of present structure, Fourth and De Soto Sts.

La., Baton Rouge—Matt G. Smith, New Raymond Bldg., Chmn. Bldg. Comm. Elks' Lodge, advises erection of \$100,000 building postponed; may do something next year.

La., New Orleans—Grand Lodge of Louisiana, A. F. & A. M., will be ready within 30 days for bids on fireproof Masonic Temple and office building, St. Charles Ave. and Perdido St.; cost \$2,000,000 without fur-

nishings and equipment, 16 stories, 100x165 ft., pile foundation, hollow and interior tile, concrete and hardwood floors, composition roof, metal doors, vaults, mail chutes, vault lights, steel sash and trim, wire glass; Sam Stone, Jr., Archt., 714 Union St.\*

Miss., Tupelo—Ancient Free and Accepted Masons, J. P. Nanney, Chmn., Bldg. Comm., plans to rebuild burned temple.

Mo., St. Louis—P. J. Stretch, Mgr., Knights of Columbus, 3549 Olive St., advises now making campaign for funds to erect 10-story lodge, club and hotel building, 3547 Olive St.; cost about \$1,250,000; architects not selected.\*

N. C., Fayetteville—Cumberland Post No. 3, American Legion, Edw. Fleischman, member, plans to erect memorial clubhouse.

Okla., Wewoka—Ancient Free and Accepted Masons plan to erect \$150,000 temple, Walnut St.; 2 stories and basement, 50x140 ft., brick.\*

S. C., Greenville—Beacham & Lerand, Archts., North St., advise plans for \$100,000 building for Greenville Lodge No. 858, B. P. O. E., discontinued for present.\*

Tenn., Erwin—Young Men's Christian Assn. has proposal from Carolina Clinchfield R. R. Co. to erect building; gymnasium, club rooms, library.

Tenn., Johnson City—S. H. Cooper, Sec., Johnson City Lodge No. 486, A. F. & A. M., advises will be some months before can make announcement of interest regarding erection of \$100,000 temple.\*

Tenn., Knoxville—Barber & McMurtry, 425 W. Clinch Ave., advise plans will be out about Jan. 25 for bids on Young Women's Christian Assn. building, W. Clinch Ave.; cost about \$177,000, H-shape, 20x60-ft., swimming pool in basement, 40x72-ft. gymnasium; Louis E. Jallade, Conslt. Archt., 129 Lexington Ave., New York.\*

Tenn., Memphis—Mazda Grotto, M. O. V. P. E. R., Hall G. Turner, Chmn. Bldg. Comm., has plans completed for \$150,000 building, Washington Ave. and Dunlap St., but no date set for bids; 2 stories, 120x240 ft., varicolored brick, terra cotta trim, auditorium to seat 5000 on first floor, removable seats; 120-ft. stage with 60-ft. proscenium arch; classrooms in basement; gymnasium and swimming pool later; E. L. Harrison, Archt., 1501 Fidelity Bank Bldg.\*

Tex., Arlington—Home for Aged Masons, Royal Arch Chapter of Texas, Judge Ed. R.



Bryan, Pres. of Board, Midland, plans to erect building adjoining main structure.

Va., Roanoke—Kazim Temple, A.A.O.N.M.S., C. B. Wilson, Chmn., Bldg. Comm., is having preliminary sketches prepared by Smithey & Tardy, Archts., Anchor Bldg., Roanoke, and Raymond M. Hood, Asso. Archt., 40 W. 40th St., New York, for \$300,000 mosque and club building on 101-acre tract, Grandin Rd.; auditorium to seat 3000, reading rooms, quarters for officers, etc.; ultimate plans call for concrete stadium to seat 25,000, open nine-hole golf course, which may later be supplemented with additional nine holes, put in tennis courts, build swimming pool; total cost of development, \$600,000; Hare & Hare, Landscape Archts., Gumbel Bldg., Kansas City, Mo.\*

W. Va., Fairmont—Geo. S. Brackett, 419 Adams St., advises, Salvation Army considers purchasing existing building; no construction contemplated.\*

### Bank and Office

Ala., Avondale (Ind. Station Birmingham)—Avondale Bank & Savings Co., J. B. Lassiter Pres., will erect bank building, Avenue D and Spring St.; work to start late in Spring.

Ala., Guntersville—First National Bank reported to erect bank building in Spring.

Ark., Little Rock—Gay Oil Co., 301 W. Third St., T. J. Gay, Pres., will erect \$100,000 office building.

Fla., Jacksonville—Louis K. Liggett, St. James Bldg., will remodel 3-story brick office and store building, Laura and Forsyth Sts.; cost \$16,000; W. T. Hadlow, Contr., Baldwin Bldg.

Fla., Jacksonville—Morgan V. Gress, 2626 St. John's Ave., purchased 3-story building, Hogan and Monroe Sts., and will remodel into office building.

Fla., Jacksonville—T. C. Imeson, 226 Hogan St., purchased 3-story building, Hogan and Monroe Sts., and will remodel into office building.

Fla., Jacksonville—Barnett National Bank, W. R. McQuaid, Pres., has decided to erect proposed \$1,500,000 building, Laura and Adams Sts.; 105x105 ft., 16 stories, safety deposit and storage vaults in basement, high speed elevators; bank to occupy first floor, remaining floors for offices; Mowbray & Uffinger, Archts., 221 W. 57th St., New York.\*

Fla., Jacksonville—Springfield-Atlantic Bank, care Edw. W. Lane, Pres., Atlantic National Bank will erect \$25,000 building, Main St. near Seventh St., after plans by Marsh & Saxelby, West Bldg.; 1 story, 35-ft. frontage.

Fla., Miami—Jerry Galatis, 1242 N. E. Second Ave., and J. E. Highleyman will erect 18-story and full basement office building, N. E. First St.; cost about \$800,000, 45x140 ft., steel frame, Dennison tile outside walls, pressed brick front, gypsum block partitions, concrete joist and tile floor construction, interior wood trim, steel sash throughout, marble body, 4 elevators; 460 offices; no heating; Louis D. Brumm, Archt., Calumet Bldg.; plans finished in 1 week; bids due on steel plans Jan. 20.

Fla., Tampa—First National Bank, T. C. Tallaferro, Pres., is having plans finished by Holmes & Winslow, 134 E. 44th St., New York, for 10-story bank and office building on site of present structure, Franklin and Madison Sts.\*

Fla., Tampa—Tampa Board of Trade, F. D. Jackson, Pres., plans to erect 15-story office building, S. E. cor Plant Park; proposal of City to furnish site to be voted upon at March 17 election; structure to have

2-story and basement main unit, 13-story tower, main section 45x120 ft., tower 45x45 ft.; public service stations and boat landing in basement, next 2 floors to be occupied by Board of Trade, 90 offices above; financing by \$300,000 bond issue; M. Leo Elliott, Citizens Bank Bldg.; structure and site to be conveyed to City in 30 years upon maturity of bonds.\*

Fla., West Palm Beach—Farmers Bank & Trust Co., T. T. Reese, Pres., reported to erect 7-story building, Olive St. and Clematis Ave.; probable cost about \$1,000,000; banking quarters on first floor, offices above; r. Reese advises nothing definite as yet.

Ga., Atlanta—Realty Trust Corp., J. L. Morrison, 401 Flatiron Bldg., reported to erect \$1,500,000 office building, structural steel, brick and terra cotta; G. Lloyd Preacher & Co., Archt., Healey Bldg.

Ga., Macon—Macon National Bank, Jesse B. Hart, Pres., will remodel and erect addition to building, Third St.; cost \$50,000, new fixtures, safety deposit vault balcony; work to start about Oct. 1; Frank R. Happ, Archt.

Ky., Ashland—Hyman Welch, W. Va., care Bruce & Hager, Ashland, is considering erecting 8-story business and office building, Winchester and 15th Sts.

Ky., Louisville—C. C. Heatt and Chas. E. McMahon reported to have acquired site, Third and Guthrie Sts., for clients as site for medical office building.

La., New Orleans—Wm. Dinwiddle, member Association of Commerce, 635 Commerce St., advises not planning to erect building as lately reported.\*

Md., Baltimore—Republic Boiler & Radiator Co., Joseph Bales, Supt., Union Ave., has bids out for 2-story office building. (See Buildings Proposed—Warehouses.)

Md., Baltimore—C. Edgar Wood, Bldr., Harford Rd., will erect \$65,000 office and arcade building, Harford Rd. S. of Hamilton Ave.; 3 stories, brick and concrete.

Mo., St. Louis—C. Richardson, International Life Bldg., reported making preliminary plans for 16-story and basement office building, fourth and Locust Sts.; 60x60 ft., reinforced concrete, brick, stone and steel.

Mo., St. Louis—St. Louis Medical Society, 3525 Pine St., plans to erect \$275,000 building, Lindell Blvd.

Okla., Wetumka—First National Bank, W. C. Farmer, Pres., will probably soon let contract for 2-story brick extension.

S. C., Due West—Drs. W. L. Pressly and J. R. Bell will erect office building; Casey & Fant, Archts., Anderson.

Tenn., Nashville—Luke Lea, Belle Meade St., will remodel and repair brick store, 421 Union St., for banking purposes; cost \$15,000.

Tex., Amarillo—Mrs. M. D. Oliver-Eakle will finance erection of office building, Polk and Sixth Sts.; cost \$500,000, brick, terra cotta, reinforced concrete frame, fireproof, 8 stories and basement, 60x140 ft., marble base, 2 elevators; 3 stores on first floor. Address William Oliver Realty Co.

Tex., Cameron—M. G. Cox will erect office building; to be occupied in part by Fidelity Abstract Co.

Tex., Corpus Christi—City National Bank is receiving bids for 6-story addition to 4-story building; cost \$150,000, fireproof, brick and concrete, 2 elevators; 125 offices; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio.\*

Tex., Dallas—Chamber of Commerce reported to remodel building.

Tex., Fort Worth—First National Bank,

T. B. Yarbrough, Vice-Pres., will probably start work about Feb. 1 on 11-story annex to First National Bank Bldg., Seventh and Houston Sts.; 50x95 ft.

Tex., Laredo—Sames-Moore & Co., receives bids Jan. 31 for brick and concrete office building; cost \$140,000, 5 stories, concrete basement, wire glass, steel sash, concrete and composition floors, 2 elevators; Adams & Adams, Archts., Gibbs Bldg., San Antonio.\*

Tex., San Antonio—Morris Stern, 228 W. Agarita St.; Jesse and Henry Oppenheimer, 309 Madison St., and Albert Kronkosky are interested in erection of \$750,000 office building, Commerce and St. Marys Sts.; fireproof, brick, stone and reinforced concrete frame, 8 stories; receiving sketches, architect not selected.

W. Va., Huntington—Twentieth Street Bank, C. W. Kitts, Chmn., Comm., will enlarge building, Third Ave. and 20th St.

### Churches

Ala., Birmingham—First Baptist Church, Dr. J. R. Hobbs, Pastor, 1100 N. 30th St., is considering remodeling or enlarging present building or erecting new structure.

Ark., Fayetteville—Western Methodist Assembly, Dr. A. C. Miller, Pres. of Board, Little Rock, will erect \$25,000 building for women at Mount Sequoyah after plans by E. M. Ratliff; stone, brick and stucco; Mr. Miller advises will be 2 months before details available.\*

Fla., Cocoa—First Methodist Church purchased site, Forrest Ave. and North St., and plans to erect building. Address The Pastor.

Fla., Jacksonville—Main Street Baptist Church, Dr. Mahon, Pastor, 306 E. Sixth St., plans to erect main auditorium and 3-story Sunday school addition, Main and 8th Sts.; cost \$150,000; 4 stories, oak and concrete floors, Spanish tile floors, hollow tile, rolling partitions; Jas. E. Greene, Archt., Farley Bldg., Birmingham, Ala.

Fla., Melbourne—Baptist Church purchased site for building. Address The Pastor.

Fla., Melbourne—Catholic Church has site for building. Address The Pastor.

Fla., Melbourne—Congregational Church purchased site, Strawbridge St. and Livingston Ave. Address The Pastor.

Fla., Melbourne—Methodist Church will erect building. Address The Pastor.

Fla., Miami—Allapattah Baptist Church, Rev. E. H. Rice, Pastor, plans to erect building, 33rd St. and Allapattah Drive.

Ga., Tifton—Methodist Church plans to erect Sunday school. Address The Pastor.

La., Haynesville—Baptist Church will probably soon let contract for \$75,000 building. Address The Pastor.\*

La., Lake Charles—Broad Street M. E. Church, South, Rev. R. H. Wynn, Pastor, is considering erecting \$60,000 to \$80,000 building.

La., New Orleans—St. Charles Avenue Baptist Church will erect building, St. Charles Ave. and Audubon St., and remodel parsonage for educational dept.; cost about \$150,000; Favrot & Livaudais, Ltd., Archts., Hibernia Bank Bldg.; ready for bids in about 90 days.

Miss., Webb—First Baptist Church, Rev. B. R. Dyess, Pastor, will erect ordinary type building; cost without furnishings and equipment, \$20,000, 2 stories, 40x60 ft., pine and concrete floors, concrete foundation, composition roof, rolling partitions; Jas. E. Greene, Archt., 808 Farley Bldg., Birmingham, Ala. Address Rev. Mr. Dyess.\*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., Ash Grove—Baptist Church plans \$20,000 building. Address The Pastor.

Mo., Columbia—Methodist Episcopal Church, South, F. F. Stephens, Sec.-Treas., Bldg. Comm., has plans in preparation by Architectural Dept., Board of Church Extension of M. E. Church, South, H. M. King, Archt. Sec., 1115 S. Fourth Ave., Louisville, Ky., for \$250,000 brick and stone building; 3 stories, concrete and hardwood floors, concrete foundation, slate or tile roof, hollow tile, metal doors, rolling partitions, steel sash, wire glass.\*

Mo., Kansas City—First Baptist Church, Dr. D. J. Evans, Pastor, 3222 Wabash Ave., will probably let contract for \$600,000 addition to building, Linwood Blvd. and Park Ave.; brick and stone, 2 stories and basement, 2 auditoriums to seat 2000 each, classrooms; J. H. Felt & Co., Archts., Grand Avenue Temple Bldg.\*

N. C., Charlotte—Pritchard Memorial Baptist Church, Ben F. Favell, Chmn. Bldg. Comm., will erect 3-story building; cost \$150,000, brick, cement, pine and hardwood floors, stone foundation, copper and composition roof, hollow tile, ornamental terra cotta, rolling partitions, steel sash and trim; Dougherty & Gardner, Archts., Stahlman Bldg., Nashville, Tenn.; bids opened Jan. 20 at church; following contractors estimating: Blythe & Isenhour, P. O. Box 641; Goode Construction Co.; Palmer-Spivey Construction Co., 404 S. Tryon St.; Geo. A. Clayton Co., 512 Bona Allen Bldg., Atlanta, Ga.; King Lumber Co., Charlottesville, Va.; Worsham Bros., Empire Bldg., Knoxville, Tenn.; J. C. Coleman, care Coleman Vaughn Furniture Co., Pulaski, Va.\*

N. C., Raleigh—First Baptist Church, Rev. S. W. O'Kelley, Pastor, 104 Edenton St., plans to erect Sunday school building in near future; probably cost \$75,000 to \$100,000; Rev. S. W. O'Kelley, Pastor, advises cannot give definite information.\*

Okla., Fairfax—First Christian Church, J. H. Ward, Sec. of Board, plans to erect \$25,000 brick building; 2 stories, 48x80 ft., hardwood floors, cement foundation, hollow tile, roofing not decided; furnishings, equipment, etc., \$1500, not including pipe organ; items to be purchased include brick, cement and lumber; architect not selected.\*

Okla., Guthrie—First Presbyterian Church plans to erect \$100,000 building. Address The Pastor.

Okla., Martha—First Baptist Church, Rev. A. F. Agee, Pastor, is having plans drawn by T. S. Ross, Gorman, Tex., for \$20,000 brick building; 2 stories, 60x70 ft., pine floors, concrete foundation, tile roof, metal ceilings, plaster board, ornamental terra cotta, rolling partitions, equipment, furnishings, etc., \$5000. Address Rev. Mr. Agee.\*

Okla., Okemah—Baptist Church, C. W. Brewer, Chmn. Bldg. Comm., will erect \$40,000 to \$50,000 building; brick, 3 stories, 60x100 ft., cement foundation, tile roof; Jas. E. Greene, Archt., Farley Bldg., Birmingham, Ala.; plans about Feb. 1.\*

Okla., Tipton—First Baptist Church, Rev. J. F. Bryant, Pastor, let contract for \$40,000 to \$50,000 building; 3 stories, 72x100 ft., brick, concrete foundation, hollow tile, metal lath and ceiling, steel sash, waterproofing, mortar colors, floor hardener, screens, ventilators.

S. C., Due West—Associate Reformed Presbyterian Church, Prof. E. L. Reid, Chmn. Bldg. Comm., will probably soon let contract for brick Colonial building.

S. C., Fort Mill—Unity Presbyterian Church, Rev. G. W. Belk, Jr., Pastor, plans to erect Sunday school rooms.

S. C., Lancaster—First Presbyterian

Church, Rev. R. W. Joplin, Chmn., Bldg. Comm., receives bids Jan. 23 for brick, rubble stone foundation, stucco gable; C. Gadsden Sayre, Archt., Jefferson Standard Bldg., Greensboro, N. C.; Raleigh, N. C., and Anderson, S. C.\*

Tenn., Knoxville—Broad Street M. E. Church, South, Rev. H. E. Kelso, Pastor, 732 N. Fourth Ave. and Centenary M. E. Church, South, will consolidate and erect building, North Knoxville; probably be called Central M. E. Church, South; probable cost \$175,000 to \$200,000, furnishings, equipment, etc., \$25,000; items to be purchased include pews, organs, memorial windows, probably chimes, etc.; committee to be appointed Jan. 22; former lately noted to rebuild structure burned at \$50,000 loss.\*

Tenn., Morristown—Methodist Episcopal Church South, Rev. S. B. Vaught, Pastor, considers erecting \$35,000 annex.

Tex., Farmersville—Methodist Church, L. L. Miller, Chmn., Bldg. Comm., will rebuild burned structure.

Tex., Fort Worth—Hemphill Presbyterian Church, Rev. M. E. Chappell, Pastor, has broken ground for \$150,000 building, Hemphill and Laurel Sts.; brick, stone, steel and terra cotta, metal and composition roof, wood floors, electric wiring, hot air heat; O. H. Atkinson, Archt., 806 Taylor St.\*

Tex., Glenrio—Texas Synod, Presbyterian Church, care Rev. Glenn L. Sneed, Chmn. of Comm. on National Missions, Dallas, plans to erect church.

Tex., Houston—Houston Heights Christian Church plans to purchase site for new building. Address The Pastor.

Tex., San Antonio—Texas Synod, Presbyterian Church, care Rev. Glenn L. Sneed, Chmn. of Comm. on National Missions, plans to raise funds for Mexican Presbyterian Church.

Tex., San Antonio—Mexican Christian Society, 1000 San Jacinto St., San Antonio, C. C. Dodson, Director, will erect \$25,000 mission, probably near Brazos and El Paso Sts.

Tex., Speegleville—Baptist Church will erect \$10,000 building; frame, 1 story, 36x110 ft.; Birch D. Easterwood, Archt., Liberty National Bank Bldg., Waco.

Tex., Waco—Church of Christ, John W. Tabor, 1610 West Ave., Chmn., Bldg. Comm., will probably start work within 60 days on \$40,000 brick and hollow tile building, Columbus and 16th Sts.; Birch D. Easterwood, Archt., Liberty National Bank Bldg.

Va., Newport News—First Presbyterian Church considers enlarging Sunday school. Address The Pastor.

W. Va., Morgantown—Tree of Life Congregation purchased site for synagogue. Address The President.

### City and County

Fla., Jacksonville—Police Station—City, John T. Alsop, Jr., Mayor, has low bid at \$272,932 from R. J. Gillespie for police station; omit garage and gymnasium, \$41,571 less; omit juvenile wing, \$6500 less; Marsh & Saxelby, Archts., West Bldg.

Ga., Atlanta—Municipal Building—City, Walter A. Sims, Mayor, contemplates sale of city hall, police station and fire dept. headquarters and erection of municipal building to house all city departments.

Mo., St. Louis—Jail Completion—Board of Public Service, Room 208, City Hall, E. R. Kinsey, Pres., receives bids Jan. 27 for construction and completion of fifth floor of city jail, 14th St. near Clark Ave.; cost about \$75,000; plans, specifications, etc., at office Pres., Room 304, City Hall.\*

Tenn., Kingston—Poor Asylum Improvements—Roane County will expend \$10,000 to improve poor asylum property instead of erecting asylum on new site as previously reported.\*

Tenn., Memphis—Police Sub-Stations—City, Thos. H. Allen, Commr. of Fire and Police, plans to erect 12 police sub-stations.

Tex., Breckenridge—Courthouse, Jail—Stephens County, E. F. Richey, Judge, reported voted \$250,000 courthouse and jail building bonds; Midwest Co., Southland Life Bldg., Dallas, lately noted architects for jail.\*

Tex., Houston—Library Addition—City, O. F. Holcombe, Mayor, receives new bids Jan. 26 for lecture wing as third unit of \$750,000 fireproof library, McKinney Ave. near Brazos Sts.; will be refurnished later date stories, 100x36 ft., stone and brick, hollow tile; Watkin & Glover, Archts., 623 Binz Bldg.; Cram & Ferguson, Constl. Archts., 248 Boylston St., Boston, Mass., and Scanlon Bldg., Houston.\*

Tex., San Antonio—Fire Stations—City, Phil Wright, Police and Fire Commr., receives bids Jan. 26 for 3 fire stations as follows: Grammercy St. & Grant Ave., brick, tile and stucco, cost \$12,000, Harvey Smith, Archt.; S. Flores St. and Rische Ave., 2 stories, brick and concrete, cost \$15,000, Richard Vander Stratten, Archt., 603 Travis Bldg., St. Charles and Hay Sts., brick, hollow tile and plaster, 1 story, 33x58 ft., cement boors, concrete foundation, cement tile roof, metal ceilings, cost \$12,500, John M. Marriott, Archt., Frost Bldg.\*

W. Va., Clarksburg—Juvenile Detention Home—Monongalia County plans to sell present juvenile detention home and erect new structure on 150-acre county farm. Address County Commrs.

### Dwellings

Ala., Guntersville—J. E. Barnett will erect brick residence.

Ala., Guntersville—Col. D. Isbell will erect 2 brick dwellings.

Ala., Guntersville—Mrs. Arthur Rains will erect brick residence.

Ala., Guntersville—Gun Runyan will erect brick residence.

Ark., Monte Ne—Miss Iris Armstrong, 112½ E. Seventh St., will erect 6 cottages at Joyzelle Camp; 12x20 ft. each.

Fla., Cocoa—A. H. Smith, Bldr., is having plans prepared for 9-room hollow tile residence, Clairmonte Drive.

Fla., Miami—Mead Construction Co. will erect \$14,500 residence on bay front near 22nd St.

Fla., Miami—E. L. Gwinn will erect residence, Biscayne Park.

Fla., Miami—R. A. Stonehouse, Indianapolis, Ind., purchased 10 lots at Fulford-by-the-Sea and will erect bungalows; cost about \$10,000 each; some Spanish type.

Fla., Miami—R. G. Langworthy, Archt., Indianapolis, Ind., will erect residence, Biscayne Park.

Fla., Miami—Mrs. N. E. Vredenburg will erect residence, Biscayne Park.

Fla., Miami Beach—Cyrus B. Honce, Belmar, N. J., will erect residence, Nautilus subdivision.

Fla., Miami—Grace Ashby and M. M. Skinner will erect \$15,000 concrete block duplex residence and garage, N. W. 31st St., Wyndwood Park.

Fla., Okeechobee—Chas. L. Henck will erect 5 bungalows, Okeechobee Gardens.

Fla., Palatka—Mrs. Martha Rogero, Macon, Ga., and Fort Pierce, Fla., will erect hollow tile residence, Emmett St.



Fla., Sarasota — Dwight James Baum, Archt., Spuyten Duyvil Pkwy. and Waldo Ave., will erect Spanish type residence, San Remo subdivision.

Fla., St. Petersburg—Mrs. Edw. C. Orvis, E. 605 Fourteenth Ave., North, will erect Spanish type bungalow, Shore Acres; 6 rooms, cost about \$12,000, tennis court, pier.

Fla., South Jacksonville (Ind. Branch Jacksonville)—C. E. Fuller will erect number of dwellings, Merridale sub-division.

Fla., South Jacksonville (Ind. Branch Jacksonville) — Shoemaker & Gustafson, 120 E. Fifth St., will erect 10 dwellings, Merridale sub-division.

Fla., South Jacksonville (Ind. Branch Jacksonville)—S. B. Woodward will erect 3 bungalows, South Riverside; total cost \$10,000.

Fla., Tampa—Ross Hunter, Healey Bldg., Atlanta, Ga., purchased 20 lots in Sunset Park; will erect 10 dwellings.

Fla., Tampa—Allen & Carmen, Southern Bldg., Franklin and Cass Sts., will erect 25 bungalows, Seminole Heights section; to sell for about \$3500 each.

Fla., Tampa—H. B. Houser, 3412 Arthur St., will erect \$10,000 residence, 3408 Arthur St.

Ga., Atlanta — H. H. Ellison and Thos. James, Healey Bldg., will erect 10 brick veneer dwellings, 28-31-36-39-44-47-48-55-56-63 Ponce de Leon Heights; 1 story.

Ga., Atlanta—H. H. McConnel, 616 S. Pryor St., will erect \$11,750 two-story brick veneer residence, 55 Wabash Ave.

Ga., Atlanta—A. S. Barnard, 405 Grant Bldg., will erect \$40,000 residence, Andrews Ave. and Paces Ferry Rd.; Pringle & Smith, Archts., Atlanta Trust Co. Bldg.

Ga., Savannah—Dr. H. T. Exley, 210 Bolton St., W., will erect frame and brick veneer residence and garage, 41st and E. Broad Sts.; 2 stories, cost about \$10,000.

La., New Orleans—Dr. Fredk. J. Wolfe, Machea Bldg., plans to erect residence, Fountainbleau Drive and Joseph St.; work to start in about 4 months.

La., New Orleans—J. H. Jordan, 4215 S. Broad St., plans to erect residence.

La., New Orleans—L. Belmonte, 1430 Annette St., contemplates erecting double cottage, Oleander St.; work to start in summer.

La., New Orleans—Mrs. P. Perkins will erect \$10,800 double residence, 335 Audubon Blvd.

La., New Orleans—John D. Nix, Jr., 7930 Jeanette St., will erect 2 duplex dwellings, Pine and Nelson Sts.; total cost \$10,000; owner builds.

La., Shreveport—Rutledge Deas, First Natl. Bank Bldg., plans to erect residence.

La., Shreveport—C. G. Hoff, 821 Monrovia St., plans to erect residence.

La., Shreveport—Ed Jacobs, 407 Dalzl St., plans to erect residence.

La., Shreveport—Mrs. F. A. Jacobs, 925 Jordan St., plans to erect residence.

La., Shreveport—Walter Jacobs plans to erect residence.

La., Shreveport—Edw. F. Neild, Archt., Merchants Bldg., plans to erect residence.

La., Shreveport—R. J. O'Brien, Sinclair Bldg., plans to erect residence.

La., Shreveport—C. V. Ratcliff, Ardis Bldg., plans to erect residence.

Md., Baltimore—Geo. A. Geyer, 237 N. Monroe St., will erect 5 brick dwellings, N. W. cor. Oakley Ave. and Laurel St.; 2 stories, 24x30 ft.; total cost about \$18,000.

Md., Baltimore—Walter Scott, 1311 St. Paul St., will erect \$18,000 residence, E. side Roland Ave. N. of Melrose Ave.; 2 stories, brick; Henry Smith & Co., Archts., 115 S. Hanover St.

Md., Baltimore—Cityco Realty Co., 7 St. Paul St., will erect 8 brick dwellings, N. W. cor. Druid Park Drive and Hilldale Place; 2 stories, 18x30 ft., brick; total cost \$25,000.

Md., Baltimore—Isaac C. Rosenthal, 3411 Holmes Ave., purchased site, S. E. cor. Belvidere and Green Spring Aves., and will erect number of dwellings.

Md., Baltimore—Thos. Mullan, 3945 Greenmount Ave., will erect 20 brick dwellings, Reisterstown Rd. at Wylie Ave.; 2 stories; total cost about \$50,000.

Md., Baltimore—Roanna Development Co. will erect 11 frame dwellings, Lyndhurst and Duvall Aves.; 1½ stories; total cost about \$60,000.

Md., Baltimore—Louis Farber, 2827 Hilldale Ave., will erect 24 brick dwellings, both sides street N. of Vogt Ave. W. of Old Pimlico Rd.; 2 stories; total cost \$50,000.

Md., Baltimore—David W. Glass, 2000 Thirteenth St., will erect 10 brick dwellings, E. side Wendover Rd. S. of Edwards Rd.; 2 stories; total cost \$55,000.

N. C., Greensboro—L. B. Williams will erect \$30,000 residence, Sunset Drive, Irving Park.

Tenn., Memphis—E. T. DePass, 1537 Netherwood St., will erect residence, Netherwood St.

Tex., Anton—J. H. Parnell, 1915 Felix St., Memphis, Tex., will erect residence.

Tex., Caldwell—Mrs. Mary E. Womble receives bids Feb. 3 at office Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio, for remodeling residence; cost \$12,000, stucco exterior.

Tex., Dallas—S. D. Cox will erect \$10,000 two-story brick veneer residence, 3604 Normandy St., Highland Park.

Tex., Dallas—Freeman Hall, American Exchange Bank Bldg., will erect \$25,000 residence, 4205 Lorraine Ave., Highland Park; 2 stories, brick.

Tex., Dallas—Dr. J. H. Smart, Medical Arts Bldg., will erect \$15,000 residence, 3401 St. John Drive, Highland Park; 2 stories, brick.

Tex., Dallas—S. Webb, Jr., Medical Arts Bldg., will erect \$19,000 residence, 3712 Alice Circle, Highland Park; 2 stories, brick.

Tex., Houston—W. J. Goggan, 1116 6th St., will erect \$15,000 residence and garage, 1418 Alabama St., Empire addition.

Tex., Lubbock—John Wright plans to erect 6 or more dwellings.

Tex., San Antonio—Dr. A. F. Cook, Bedell Bldg., is receiving bids for hollow tile and stucco residence; cost \$12,000, 8 rooms, 2 stories; Phelps & DeWees, Archts., Gunter Bldg.

Tex., San Antonio—Chas. Dierolf is receiving bids at office Beverly W. Spillman, Archt., Alamo National Bank Bldg., for hollow tile and concrete residence, 311 Hedges St.; 1 story, cost \$15,000.

Tex., San Antonio—Dr. A. F. Cook, Bedell Bldg., will erect \$12,000 residence and double garage, Ellsmere St. near McCollough Ave.; 2 stories, 8 rooms, hollow tile and stucco, tile roof; Phelps & DeWees, Archts., Gunter Bldg.

Tex., San Antonio—Home Building Lumber Co. will erect 12 frame dwellings, Roosevelt, Uvalde, Lakeview, Salinas and Chupaderas Sts.; 3, 4 and 5 rooms; total cost \$13,200.

Va., Richmond — W. B. Carneal, 12 N.

Ninth St., will erect 4 brick dwellings; total cost \$12,000.

Va., Richmond—W. Marlborough Addition will erect 5 brick dwellings; total cost \$15,000.

Va., South Boston—Halifax Cotton Mill, W. A. Canlass, Pres., will erect about 15 dwellings.

## Government and State

Ala., Montgomery—Buildings—War Dept., Washington, D. C., authorized expenditure of \$210,000 for building program at Maxwell Field.

W. Va., Clarksburg—Post Office Remodeling—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids Feb. 6 for remodeling, including incidental changes in mechanical equipment, of post office; drawings and specifications from custodian at site or from office Supervising Archt.

## Hospitals, Sanitariums, Etc.

Fla., Bartow—Polk County, J. D. Raulerson, Clk., will erect hospital after plans by A. J. Poteet, Lakeland.\*

Fla., Tampa—City, W. L. Lowry, Commr., 415 Citrus Exchange Bldg., votes March 17 on \$1,000,000 bonds for 500-bed fireproof hospital; \$250,000 previously voted; M. Leo Elliott, Archt., Citizens Bank Bldg.; Stevens & Lee, Conslt. Archts., 9 Park St., Boston, Mass.\*

Ga., Athens—Clarke County, Max Michael, Chmn. of Board, Athens General Hospital, considers erecting negro annex in rear of Athens General Hospital.

Ga., Atlanta—Scottish Rite Masons, Forrest Adair, Healey Bldg., Sec., Shrine Hospitals for Crippled Children, will erect \$25,000 brick and stucco hospital ward; Hentz, Reid & Adler, Archts., 92½ Forsyth Bldg.

La., Haynesville—Haynesville Hospital, Inc., will probably soon let contract for \$60,000 hospital and sanitarium building.\*

Missouri—Dr. Ray B. Horton, Purdy, plans to establish hospital in Southwest Missouri.

Md., Crownsville—Crownsville State Hospital, Dr. R. P. Winterode, Supt., will erect superintendent's residence; probably clapboard; Henry P. Hopkins, Archt., 347 N. Charles St.

Md., Frederick—City Hospital, care Dr. T. B. Johnson, 7 E. Church St., will erect 3-story addition; 46x50 ft.; Edward Leber, Archt., Hay Bldg., York, Pa., advises too early for details.

Mo., St. Louis—Shrine Hospital for Crippled Children, Forrest Adair, Sec., Healey Bldg., Atlanta, aG., plans to erect 3 additions to hospital. Address Committee on Masonic Information, 1950 Railway Exchange Bldg., St. Louis.

N. C., Durham—Drs. S. D. McPherson and T. C. Kerns both Trust Bldg., reported to erect eye, ear, nose and throat hospital, E. Main St.; probably 2 stories, brick, cost about \$40,000.

Tex., El Paso—El Paso County, R. H. Oliver, County Commr., Precinct No. 1, and City, W. K. Ramsey, Alderman, will erect brick or concrete hospital; cost about \$100,000 without furnishings and equipment, about 120 beds; Trost & Trost, Archts., Two-Republics Bldg.; Mr. Oliver advises no details settled; will be worked out in next few weeks and bids called for in early spring.\*

Tex., Houston—W. A. Dowdy, City Archt., Room 594, City Hall, advises bids rejected for nurses' home and isolation ward at Jef-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

person Davis Hospital and revised plans being prepared; former \$30,000; latter, \$25,000.\*

Tex., Houston—City, O. F. Holcombe, Mayor, contemplates erection of negro hospital; has offer of \$75,000 for first unit.

Va., Sweet Briar—Sweet Briar, Dr. Emilie Watts McVea, Pres., College will erect \$25,000 infirmary; 2 stories and basement, brick; Clark & Crowe, Archts., Lynchburg.

### Hotels and Apartments

Ala., Albertville—J. P. King of Gadsden, Ala. and Tullahoma, Tenn., will erect 35-room, 3-story hotel on site of old Albertville Hotel.

Ark., Mountain View—L. E. Johnson has purchased property at N. W. cor. of public square and will erect hotel.

D. C., Washington—Hotel Harrington, Harrington Mills, Pres., Grafton Hotel, has final plans in progress by A. B. FitzSimons, Archt., Colorado Bldg., for \$400,000, 12-story, 75x60 ft., brick and stone trim addition, S. E. cor. 12th and E Sts., N. W.\*

Fla., Bradenton—G. C. Underhill will erect \$25,000 apartment building on Harris St. near Central Ave.

Fla., Miami—Bay Front Holdings, Inc., H. A. Ahlman, Pres., capitalized at \$200,000, has purchased property with 270-ft. frontage on Biscayne Bay, extending back 2800 ft., with 330-ft. frontage on Ingraham Highway, and contemplates erecting 8 or 10-story, reinforced concrete or tile, 200-guest room hotel; cost including grounds \$750,000.

Fla., Miami—Herman Masters, 528 S. W. Fifth St., will remodel dwelling and erect 4-family apartment building; Pfeiffer & O'Reilly, Archts.

Fla., Miami—Theresa C. Yeatman, 528 S. W. Fifth St., plans erection of 2-story, concrete block apartment building.

Fla., Miami—Fred F. French Co., Archts. and Contrs., 350 Madison Ave., New York City, wires in regard proposed apartment building at N. Bay Shore Drive and N. E. Third St.: "Eleven-story apartment house, 105x175 ft., \$2,000,000, reinforced concrete, plans only in preliminary state, start construction about Feb. 15."

Fla., Palm Beach—Franklin Pettit, 2 Wall St., New York City, purchased property on Seaview Ave. and plans to erect Spanish type apartments and shops; reported to contemplate erecting \$5,000,000 fireproof apartment hotel on property at Ocean Blvd. and Seaview Ave.

Fla., St. Petersburg—L. C. Wick, Pittsburgh, M. W. Goodell, Binghamton, N. Y., and J. George Young, 401 Fourth St., S., St. Petersburg, contemplate erecting \$1,500,000 hotel and 18-hole golf course, in connection with development of 1600 acres of land on Tampa Bay north of Gandy bridge, for which Rufus R. Wilson, Pres. of Florida Real Estate Bureau, with offices in New York and St. Petersburg, has contract; will be known as "Gardenis."

Fla., Tampa—D. P. Davis Properties, Warner Bldg., Arthur Y. Milam, Sec.-Treas., announced plans for erecting \$2,000,000 hotel in new hotel section of Davis Islands; plans and specifications prepared by Martin L. Hampton, Congress Bldg., Miami.

Fla., West Palm Beach—William J. Mack, 64 Water St., New York City, announced plans to construct 4-story apartment and office building on Royal Palm Way, Palm Beach.

Ga., Columbus—Charles E. and Jack Walton, 1943 Lake Drive, lessees and managers

of Waverly Hotel, announced plans for erecting addition.

Ga., Macon—Marks Kesser announced plans are in progress for erection of 5-story, \$100,000, 125-room hotel building on Cherry St. near Terminal station.

Ga., Savannah—Andrew Aprea, director of Savannah Board of Trade, announced plans being made for erection of tourist hotel on Wilmington Island.

Ky., Louisville—Ormsby Realty Co. announced through Raymond G. Clark, 1215 Garvin Place, Pres. of Webb Clark Co. and E. T. Hutchings, Archt., 416 Fifth St., plans for \$500,000 apartment building at Ormsby Ave. and Garvin Place.

Md., Baltimore—George F. Heubeck, Jr., 128 N. Fremont Ave., has completed plans for remodeling Pleasants' mansion, at 12 Mt. Vernon Place, into apartment house; Walter M. Giesecke, Archt., Gunther Bldg.

Md., Baltimore—Arcadia Building Corp., care J. H. and F. J. Thuman, Archts., 2401 Shirley Ave., having revised plans prepared for \$200,000, 4-story, 101x102 ft., brick apartment building, Harford Road and Parkside Drive.

Md., Baltimore—Leo F. Meyer, Continental Bldg., has plans by J. L. Forsythe, 16 E. Lexington St., for \$30,000 2½-story and basement, 55x83 ft., brick, 4 suite apartment building on Park Heights Ave.

Md., Baltimore—Baltimore-Washington Realty Co., Walter K. Bachrach, Pres., 16 W. Lexington St., has plans by Lucius R. White, Archt., Hearst Tower Bldg., for 4-story, stucco, Italian design apartment building, east side St. Paul St., north of 31st St., to contain 24 suites of 4 rooms, kitchen and bath, with stores on first floor; \$200,000, including site.

Mo., Kansas City—Fisher Building Co., Title & Trust Bldg., has plans by William J. Koch, 801 Mutual Bldg., for 8-story Schuyler apartment hotel building at 1017 Locust St.; 48x132 ft., fireproof, 94 kitchenette apartments and 16 single rooms; cost about \$500,000; lobby and tea room on ground floor.

Mo., Kansas City—Northeast Development Co., Judson H. Wood, Pres., purchased 60-ft. frontage at 3419 Broadway and plans 3 or 4-story hotel.

Mo., St. Louis—E. Horton, 4188 West Belle Place, will soon take bids for 8-story and basement, 144x160 ft., brick, concrete and terra cotta hotel on Finney St. at Pendleton Ave.; cost \$1,000,000 or more.

N. C., Apex—Mrs. Margaret L. Bagley is reported to have interested northern financiers in \$5,000,000, 7-story resort hotel project, to be known as Pine Crest; John Boushail, Citizen's Natl. Bank, Raleigh, trust officer for financial interests; board of directors as follows: Jos. G. Brown, Pres. Citizen's Natl. Bank, Raleigh; J. B. Mason, Vice-Pres. Citizen's Natl. Bank, Durham; W. B. Crabtree, Pres. Fitz-Crabtree Manufacturing Co., Sanford, and others.

N. C., Charlotte—O. D. Wheeler, 1809½ South Boulevard, will erect \$12,000, 2-story, 32x100 ft. frame apartments; electric wiring and fixtures, plumbing.

N. C., Concord—W. L. Stoddart, Archt., 50 E. 41st St., New York City, has been employed to prepare plans for 100-room hotel building to cost \$435,000 complete; 5 stores on ground floor; Chamber of Commerce, H. W. Blanks, Sec., interested.\*

N. C., Durham—Hotel Mabourne, E. Main St., E. I. Bugg, one of proprs., will expend \$25,000 for remodeling.

Okl., Oklahoma City—H. B. Gannaway, 1001 N. Harvey St., will erect \$12,000, brick and tile apartments at 309 W. Ninth St.

S. C., Rock Hill—Committee consisting of J. R. Shurley, C. L. Cobb, Roy Barron and others named to direct efforts toward erection of hotel building.

Tenn., Greenville—W. K. Mitchell has purchased building formerly occupied by East Tennessee Tobacco Co., and will convert into hotel.

Tex., Anton—Mrs. Frances White, Floydada, will erect rooming house on lot 13, block 69.

Tex., Corpus Christi—T. M. Ganaway will erect \$10,000, 8-room apartment house on Chaparral St.

Tex., Dallas—John W. Westbrook Co., Archts., 407½ N. Bishop St., receiving bids for \$140,000, reinforced concrete, brick and tile, 70x107 ft., fireproof apartment building on Marsalis Ave., for J. R. Hill; 4 stories, cement and tile floors, concrete foundation, built-up composition roof, hollow tile, interior tile, plaster board, metal doors, vaults, mail chutes, vault lights, ventilators, ornamental terra cotta, steel sash and trim, wire glass, gas steam heat.\*

Tex., Dallas—Lillie J. Brown will erect \$35,000, 48-room, brick veneer, 12-apartment building at 4702 Reiger St.

Tex., Dallas—Thos. P. Finnegan, 4229 Lemmon St., has plans in progress for 2-story and basement, brick, 12-apartment building on Oak Lawn Ave., near Highland Park West.

Tex., Dallas—Groselose and Linberger will erect \$10,000, 10-room, brick veneer, 2-apartment building at 1205-7 N. Madison St.

Tex., Dallas—J. D. Pope, 2712 N. Washington St., will receive bids this week for \$75,000, 2-story, brick, Spanish type, 16-apartment building at Ross & Summitt Aves., East Dallas.

Tex., Houston—Plaza Apartment Hotel Co. approved plans by Joseph Finger, Woolworth Bldg., for 8-story hotel apartment building and awarded tentative contract to Southwest Construction Co., West Bldg.; cost complete \$1,250,000, American renaissance design, exterior of buff rough brick with ornamental stone and terra cotta trimmings, contain about 90 apartments of from 1 to 4 rooms, basement to contain dining room and cafe, 2 high-speed passenger elevators; will be financed by G. L. Miller & Co., Hurt Bldg., Atlanta.

Tex., Houston—Brickey & Brickey, Archts. and Structural Engrs., 611 State Natl. Bank Bldg., prepared plans and construction will start in 30 days on 10-story, \$3,000,000, brick and reinforced concrete, fireproof, 435-room apartment and hotel building to be known at Princess Ann; 162 apartments ranging in size from 1 to 7 rooms; 267-ft. frontage with 2 projecting wings 156 ft. long, providing 2 courts; passenger and freight elevators; site and names of owners withheld.

Tex., Lubbock—Campaign Executive Comm., R. W. Blair, Chmn., launched campaign for funds for erecting \$300,000, 6-story, fireproof, 123-room hotel building; Sanguinet, Staats & Hedrick, Archts., First National Bank Bldg., Fort Worth.

Tex., San Antonio—Alexander Joske, care Joske Brothers, 102 S. Alamo St., plans erection of \$750,000, 12 to 15-story, brick and concrete, 45x315 ft. hotel building, Commerce and Presa Sts.

Va., Charlottesville—Board of Directors of Jackson Park Hotel Co., Inc., accepted plans by Stanhope S. Johnson, Peoples National Bank Bldg., and R. O. Brannan, Archts., Lynchburg, and will receive bids until Feb. 2 for \$500,000, 200-room Monticello Hotel, Jefferson and Fifth Sts.; running ice water and radio for each room, Colonial design.\*



Va., Richmond—M. R. Palmore has permit for \$28,000, 3-story, brick apartment building.

### Miscellaneous

Ala., Montgomery—Pythian Home Commission approved plans by Okel & Cooper, Bell Bldg., for first unit of Alabama Pythian Home; \$40,000, 2 stories, brick and hollow tile, slate roof; members of Commission are: Allen Crenshaw, Andalusia; W. H. Weekley, Huntsville, and J. B. Ellis, Selma; will call for bids this week.

Ark., Pine Bluff—Clubhouse—Izaak Walton League is reported to plan erecting clubhouse on Round Lake.

Ga., Madosta—Mrs. A. J. Strickland is Chmn. of Committee for erection of \$11,000, red face brick Women's Building.

Fla., Miami—Schrieber & Albury, Chicago, purchased Hardies' Casino as site for proposed \$1,000,000 pier, to include theater and amusement concessions.

Ky., Pineville—Board of Control of Clear Creek Mountain Springs Encampment Assn., Dr. L. C. Kelly, Pres., sponsoring movement to raise \$1,000,000 for development of Clear Creek Mountain Springs, Baptist encampment, near Pineville; following work to be started as soon as first \$250,000 is raised: Construction of 2 lakes and power house, to be operated by water power, \$65,000; roads and improvements on grounds, \$25,000; water and sewage system, \$20,000; purchase of 350 acres of additional land and surveying, \$18,000; 100-room hotel, \$100,000; auditorium with seating capacity of 1500, \$10,000; and other expenses, \$12,000.\*

Mo., St. Joseph—E. J. Peskey, 2702 Monterey, has plans in progress by Eugene Meier, Lincoln Bldg., for \$30,000, 1-story and basement, 100x50 ft., tile and stucco picture shop at 26th and Penn Sts.

Tenn., Knoxville—Lincoln Cemetery & Development Co. plans erection of \$50,000, 300x100-ft., 2-story, brick building in 1900 block Magnolia Ave.

Tex., Dallas—Clubhouse—Lakewood Country Club, Gaston St., contemplates expending \$75,000 for improvements.

Tex., Dallas—Home—Girls' Protective Home executive committee, Mrs. C. H. Huvelle, Pres., 2017 S. Erway St., will soon purchase lot and erect permanent building.

Tex., San Antonio—Mrs. Henry Drough, Chmn. Ways and Means Committee announced selection of Atlee B. & Robt. M. Ayres, Architects, Bedell Bldg., for \$100,000 clubhouse on site of present building; Richard Vander Stratten, Asso. Archt., Hicks Bldg.\*

### Schools

Ala., Carbon Hill—School Board has plans by State Board of Education's architectural department, Montgomery, for \$30,000 school auditorium.

D. C., Washington—Department of the Interior, F. M. Goodwin, Asst. Sec., will receive bids until Jan. 24 for (a) erection of gymnasium and armory building, (b) installation of heating, plumbing and gas, (c) electrical installation and electric fixtures, (d) furniture and gymnasium equipment and (e) construction of athletic field at Howard University; Albert I. Cassell, Archt., Dept. of Architecture, Howard University.\*

Fla., St. Petersburg—School Board plans erection of school plant on 20-acre plot on Seventh Ave. north, between 25th and 27th Sts., to cost slightly less than \$1,000,000; will include High School, Junior High school and Grade School, with athletic field for each building; High School will have 50 rooms, arc shaped roof, auditorium, stage, cafeteria, cost

\$600,000; Wm. B. Ittner, Archt., Board of Education Bldg., St. Louis, Mo.; contemplate bond election of about \$1,150,000.

Fla., Wellborn—Town voted \$10,000 school bonds; address Suwannee County Board of Public Instruction, Live Oak.

Fla., West Palm Beach—Palm Beach County Board of Public Instruction will erect additions to South Borough and Kelsey City schools after plans by Wm. Manly King.

Ga., Columbus—Board of Education instructed architects to draw final plans and specifications for high school building to be erected in Wildwood Park; 2 stories and basement, contain boys' gymnasium, girls' gymnasium, cafeteria, locker, alcoves, armory, library, study hall and auditorium to seat about 1200; Georgian colonial architecture; Hickman & Martin, Archts., Swift Bldg. and Starrett & Van Vleck, 8 W. 40th St., New York City, are specialists.\*

Ky., Lexington—University of Kentucky, D. H. Peak, Bus. Agent, Rose and High Sts., rejected all bids for erection of \$100,000, slow-burning, brick and wood joists, Chemical Laboratory; work will be re-figured; Coolidge & Shattuck, Archts., Ames Bldg., Boston, Mass.\*

Ky., Louisville—University of Louisville, Dr. A. Y. Ford, Pres., will soon have blueprints by Olmstead Brothers; Brookline, Mass., for alterations to buildings of Louisville and Jefferson County Children's Home, Third and Shipp Sts. to cost \$100,000.

La., Lafayette—Lafayette Parish School Board will call election Feb. 17 to vote \$350,000 school bonds.\*

La., Mer Rouge—Morehouse Parish School Board, Bastrop, will open bids Feb. 10 for 2-story, brick school building; separate bids on plumbing, heating and electric wiring; J. W. Smith, Archt., Ouachita Bank Bldg., Monroe.

La., New Orleans—Orleans Parish School Board will open bids Feb. 13 for erection of \$60,000, 3-story, 8-room Luther school building. Lowerline and Poplar Sts.; mill construction faced with pressed brick; E. A. Christy, Archt., 302 Walnut St.

Md., Bowie—State of Maryland, Board of Education, A. S. Cook, Supt., Lexington Bldg., has plans by Smith & May, Calvert Bldg., both Baltimore, for \$100,000 2-story brick dormitory addition and administration building.\*

Md., Frederick—State of Maryland School for the Deaf, Dr. Bernard C. Steiner, Pres., Baltimore, will have plans on market about Feb. 1, by Capt. A. A. Hileman, Patrick Court Bldg., Frederick, and Wm. Douden, 501 Seventh St., N. W., Washington, for \$45,000, 3-story, 57x110 ft., brick and steel Trades Building and Gymnasium at 173 S. Market St.; wood floors, concrete foundation, slate and slag roof; all work to be included in general contract.\*

Md., Lewistown—Frederick County School Commissioners, G. Lloyd Palmer, Supt., has plans by Capt. A. Hileman, Patrick Court Bldg., both Frederick, for 1-story, brick school building.\*

Miss., Center—Town voted bonds for erecting school building; address School Board.

Miss., Columbia—Marion County Board of Education, Supt. Hammond, contemplates rebuilding Buford Consolidated school building, recently destroyed by fire.

Miss., Gulfport—School Board accepted plans by Shaw & Woleben, and will open bids Jan. 27, for erecting 1-story, brick high school building to replace Central High School destroyed by fire; accommodate 400 children, contain 10 classrooms, kitchen and cafeteria,

principal's office, teacher's rest room, cloak rooms, etc.\*

Mo., Forest City—Board of Education, R. W. Fawks, Pres., will start work in spring on \$28,500, fireproof, grade and high school building; combined auditorium and gymnasium; H. E. Wagenknecht, Archt., 2404 Mitchell St., St. Joseph.

Mo., Kansas City—Executive Committee of Kansas City School of Law, O. H. Dean, Chmn., contemplates erecting building on 50-ft. frontage south of 909 Baltimore Ave.

Mo., Marshall—Missouri Valley College, Dr. W. H. Black, Pres., 405 E. College St., contemplates erecting \$100,000, 2-story and basement, brick library building; Owen & Payson, Archts., 505 Interstate Bldg., Kansas City.

N. C., Lenoir—Davenport College, C. L. Hornaday, Pres., contemplates erecting dining hall annex.

N. C., Mount Olive—Mount Olive Graded School District Trustees, T. R. Thigpen, Sec., will receive bids until Jan. 30, for erecting 2 school buildings after plans by John David Gullett, Archt., Goldsboro.

N. C., Shelby—Cleveland County Board of Education is receiving bids for 2 brick school buildings, 1 for South Shelby and the other for Fallston; South Shelby building to contain 14 classrooms with auditorium, offices, laboratory rooms and library; Fallston will have 10 rooms with offices and library; electric lighting, steam heat.

N. C., Swannanoa—A. Coxins is Chmn. of School Committee and contemplates bond election for erecting high school building.

N. C., Winston-Salem—Forsyth County Bd. of Education, T. H. Cash, Supt., opens bids Jan. 23 for heating and plumbing Clemmons, Mineral Springs and Walkertown schools; Northup & O'Brien, Archts., Starbuck Bldg.

Okla., Altus—Jackson County Board of Education, Miss Hattie Henry, Supt., will soon let contract for \$13,500 school building at Pleasant Point.

Okla., Francis—Board of Education, A. J. Payne, Clerk, has plans in progress by Albert S. Ross, Ada, for \$28,000, 1-story, semi-fireproof school building; cement floors, wood finish.

Okla., Norman—State Board of Affairs, Capitol Bldg., Oklahoma City, having preliminary plans prepared by Jewell Hicks, Durant, for \$300,000, 3-story and basement, 86x190 ft. dormitory for University of Oklahoma.\*

Okla., Sayre—School Board contemplates calling \$56,000 bond election for erection of \$66,000 school building.

Okla., Tahlequah—Sequoyah Orphan Training School contemplates improvements and repairs.

S. C., Cayce—Board of Trustees Cayce School District, will open bids this week for 1-story, brick, 6-classrooms and auditorium grammar school building; address G. W. Nichols, Supt., New Brookland.\*

S. C., McCormick—McCormick School District No. 4, Board of Trustees, will receive bids until Jan. 30 for \$35,000, brick and tile, 1-story, 8-room and auditorium school building; pine floors, concrete foundation, asbestos shingle roof; Scroggs & Ewing, Archts., Lamar Bldg., Augusta; address Robt. S. Owens, Chmn. Building Committee.\*

Tenn., Chattanooga—Hamilton County Board of Education appointed committee composed of J. E. Walker and Chmn. J. V. Trotter to confer with officials of Dixie Spinning Mills in regard erection of school building at plant at Lupton.

Tenn., Knoxville—Board of Education con-

templates calling bond election in April or May, for school building program.

Tenn., Nashville—Board of Education, H. C. Weber, Supt., appointed committee consisting of T. Graham Hall, J. W. Jakes and Alfred Hume to investigate proposed erection of grammar school.

Tenn., Ripley—City Club is sponsoring calling of election and erection of high school building.

Tex., Annona—High School building, destroyed by fire at \$30,000 loss, is reported to be replaced; address School Board.

Tex., Palestine—Board of Education will receive bids after Jan. 26 for 2-story and part-basement, 62x177-ft., reinforced concrete, hollow tile, semi-fireproof school building; \$80,000, \$20,000 for fixtures, auditorium to seat 800, 20 classrooms, etc.; Theo. S. Maffitt, Archt.\*

Tex., Georgetown—E. G. Gillett, O. W. Sherrill and others are committee selected to raise \$50,000 in Georgetown toward \$200,000 needed for immediate erection of woman's building at Southwestern University, to replace structure recently destroyed by fire; address J. Sam Barcus, Pres.\*

Va., Falls Church—Town voted \$75,000 bonds for erecting 10-classroom and auditorium school building on Washington St., near Great Falls St.\*

W. Va., Berwind—Board of Education of Big Creek District, E. M. Cooley, District Supt., considering architects sketches and preliminary plans for proposed school building.

W. Va., Charleston—Board of Education, Charleston Independent School District, E. A. Babcock, Supt., P. O. Box 935, rejected all bids for erection of Senior High School building; \$600,000 available; Warne, Tucker & Fatterson, Archts., Masonic Temple Bldg.\*

W. Va., Fairmont—State Board of Control, Jas. S. Lakin, Pres., Charleston, will receive bids until Mar. 2 for 60x64-ft., 2-story, brick addition to Fairmont Normal School Building and concrete cold storage, transformer room and ash hoist, in rear of building, according to plans and specifications by R. A. Gillis, Archt., Fleming Bldg.

### Stores

Ala., Tuscaloosa—City Realty Co. announced erection of \$20,000 2-story, brick building to replace American Cafe and Art's Bicycle shop at 2308-10 Broad St.; will be occupied by Dugin Shoe store and Larray & Kennedy.

Ala., Tuscaloosa—City Realty Co. is razing buildings on Broad St. and will erect \$20,000, 2-story, brick structure on site.

Ark., Little Rock—J. D. Baek & Bro., 410 Main St., will take bids about Feb. 1 for \$250,000, 4-story and basement, 50x140 ft., concrete, brick, steel and stone store building, Main and Fifth Sts.; Mann & Stern, Archts., A. O. U. W. Bldg.

Ark., Little Rock—C. J. Shay will erect \$30,000, 1-story, brick building at 420-22 East Third St.

Fla., Jacksonville—David Safay and John Khouri, 824 W. Adams St., purchased lot at corner St. Johns and Myrtle Aves. and another on St. Johns Ave. and are reported to contemplate erecting business buildings.

Fla., Miami—John Lemon will expend \$15,000 for remodeling building at N. Miami Court and First St.

Fla., Miami—Buena Vista Saving & Loan Co. will erect 2-story commercial building on N. E. 40th St.

Ga., Atlanta—R. W. Rosenfield, 106 Madison Ave., will erect commercial building on Ivy St.; Lockwood, Greene & Co., Archts., Healey Bldg.

La., Alexandria—Herman J. Duncan, Architect, 120 Murray St., will open bids Jan. 31, for erecting seven 1-story brick store buildings, Fourth and Murray Sts., for F. O. Hunter; tile floors, metal frames and sash, plate glass windows and show cases, Barrett roof, plumbing, heating and electric wiring.\*

La., Shreveport—Jacobs Estate has permit for remodeling front of building at 610 Texas St., to be occupied by Booth Furniture & Carpet Co.; cost \$16,580.

Md., Baltimore—Joseph Welsenfeld has plans in progress by Julius Levy, 105 Ridgewood Rd., for installation of 6 stores in building at N. W. cor. Baltimore and Howard Sts.

Md., Baltimore—Walter Bell, Pres. of Park Bank, Liberty and Lexington Sts., George W. Walther, Vice-Pres.; Robert N. Baer, counsel, and others, acquired portion of plot with 44-ft. frontage and will erect business building in near future.

Mo., Carthage—F. W. Steadley, 406 Howard St., will erect brick business building on East Fourth St., in the spring.

Mo., Clayton (Ind. Bd. St. Louis)—G. L. Loeffler, 2613 Fourteenth St. and Harry Newman, St. Louis, will soon let contract for \$30,000, 2-story and basement, 46x100 ft., brick, 7-story and 5-suite apartment building at S. E. cor. S. Rosebury and DeMun Sts.; Ferdinand Peifers, Archts., 111 N. Broadway St., St. Louis.

Mo., Kansas City—Sherman E. Cabiness purchased 50-ft. frontage at 2710 Prospect Ave. and plans to build storerooms.

Mo., Kansas City—Douglas S. Cramer, Pres. Douglas Manufacturing Co., 2615 Walnut St., contemplates erecting \$40,000, 2-story and basement, brick store building on Broadway; private plans.

Mo., Poplar Bluff—Alfred W. Greer has plans in progress for erection of three 2-story brick building, 2 brick bungalows and 2-story brick building to be used as garage; total cost \$60,000.

S. C., Florence—P. J. Maxwell will remodel Times Building to be occupied after April 1st, by Efrd Brothers Co., department store.

Tex., Anton—G. Cocery, Post City, will erect brick business house on lot 2, block 61.

Tex., Anton—L. J. Maloof, Rotan, will erect brick building on lot 3, block 61, Main St., to be used as dry goods store.

Tex., Dallas—The La Mode, 1708 Elm St., has acquired lease on 2-story brick building at 1803-5 Main St., and will run present store through from Elm St.; will be remodeled at cost of \$20,000 by the lessee, Mayor Louis Blaylock.

Tex., Dallas—Maryland Investment Co. purchased property at S. W. cor Elm and Hawkins St. including 2-story building with 3 stores on first floor and apartments above, and will improve.

Tex., Dallas—F. W. Woolworth Co., Southland Life Bldg., will expend about \$10,000 for remodeling building at 1013 Elm St.

Tex., Fort Worth—W. C. Stonestreet, Arlington Heights, announced plans for repairing and rebuilding Worth Building, Seventh and Main Sts., damaged by fire at \$210,000 loss; owned by John Scharbauer of Fort Worth and Midland.

Tex., Fort Worth—Turner and Dingee will erect 1-story, brick store building at 800 W. Seventh St., to cost about \$10,000.

Tex., Fort Worth—Beacon Shoe Co., 706 Main St., will erect \$40,000 store building at 1010 Main St.

Tex., Kerrville—W. A. Fawcett Furniture Store opens bids this week for additions

and remodeling building; \$15,000; Adams & Adams, Archts., Gibbs Bldg., San Antonio.

Tex., Laredo—A. M. Bruni contemplates erection of 6-story, brick, stone and reinforced concrete business building; architect not selected.

Tex., Plainview—Jim Greene has wrecked old building on Broadway and will start work immediately on brick, 25x75 ft., \$10,000 building.

Tex., San Antonio—M. Kallison, 124 Flores St., will receive bids after Jan. 23 for first and second units of \$40,000, 2-story, brick and concrete buildings on S. Flores St.; stores on first floor and offices above; reinforced concrete foundation, brick and hollow tile walls, tar and gravel roof, metal lath, plaster partitions; Harvey P. Smith, Archt., Natl. Bank of Commerce Bldg.\*

Tex., San Antonio—Elias Varessis & Nicolau, 603 Garden St., will soon let contract for erection of \$30,000, 1-story, brick, hollow tile and cast stone stores and garage, corners S. Alamo, Presa and Garden Sts.; E. W. Reffinger, low bidder; tar and gravel roof, concrete floors; Richard Vander Stratten, Archt., 603 Travis Bldg.\*

Tex., San Antonio—Solo Serve Improvement Co., 128 Soledad St., will expend \$12,000 for remodeling building on Soledad St.

Tex., Temple—Thompson Grocery Co. will soon start work on 110x60 ft., 2-story building; Roy E. Lane, Archt., Chamber of Commerce Bldg., Waco.

Va., Bluefield—Bill Warden will erect double brick building on Highland Ave.

W. Va., Huntington—M. E. Mossman, 745 Seventh Ave., will erect \$16,000, brick store room with apartments above at 1119 Seventh Ave.

### Theatres

Mo., St. Louis—Preston J. Bradshaw, Archt., International Life Bldg., announced plans and specifications are in progress and will soon be ready for bids for air dome and shop building for West End Lyric at Tallor and Delmar Blvd.; shop building to contain 11 shops, entrance to air dome and box offices at corner, Spanish design in stucco with tile roofs and parapets, total improvements to cost \$200,000, new stage, seats, bandstand and projecting rooms, garden and Spanish patio surrounded with perolas, stores will have plateglass show windows on both street and theater side.

### Warehouses

Ark., Springdale—Welch Grape Juice Co., E. E. Guinnup, Mgr., will start work Feb. 1st, on building to be used as warehouse and storage plant.

Md., Baltimore—Republic Boiler & Radiator Co., Joseph Bales, Supt., Union Ave., has bids out for 2-story office building, also plans for erection of warehouse.

Md., Cumberland—Sinclair Refining Co. has permit to erect warehouse, garage and 3 or more storage tanks.

Mo., Kansas City—Greenebaum, Hardy & Schumacher, Archts., 216 Searritt Bldg., taking bids on all sub-contracts for 8-story and basement, 49x115 ft., brick and concrete with terra cotta trim furniture store and warehouse at 1209-11 Walnut St., for Household Fair Furniture Co., 1012 Walnut St., Jacob A. Ryder; work to start in spring.

Mo., St. Joseph—H. Ehrlich & Sons Mfg. Co., Albert H. Ehrlich, 201 S. 17th St., has plans in progress and will soon start work on \$20,000, 2-story and basement, 125x50 ft., brick and concrete warehouse at Colorado and



Lake Ave.; Webb Simons, Archt., Bartlett Trust Bldg.

Mo., Springfield—Keet-Roundtree Dry Goods Co., 317 South St., reported to erect \$25,000 warehouse on traffic St., advises: "Have decided not to build."\*

N. C., New Bern—Atlantic Coast Line R. R., Capt. W. H. Newell, Jr., Division Supt., will soon start work of rebuilding burned warehouse.

Tex., Temple—Roy Lane, Archt., Chamber of Commerce Bldg., Waco, is receiving bids

for hollow tile and reinforced concrete frame, 2-story, fireproof, \$40,000, 60x110-ft. warehouse building for Frank Thompson.

W. Va., Parkersburg—Wiant & Barr Hardware Co. purchased old auditorium theater building, Fifth and Avery Sts., and will remodel into warehouse at cost of \$15,000.

Tex., Denton—Boren Stewart Co. has purchased brick building on East Oak St. and will expend \$30,000 for improvements; erect 32x125 ft. addition, install cold storage plant and new front; W. T. Bolton, Mgr.

crete foundation, Johns-Manville roof; sub-contracts not let.

La., Lake Charles—New Woodbury Congregational Church, Colored, Dr. H. L. Lang, Pastor, 227 Boulevard, let contract at \$10,600 to A. D. Wildy, 808 Butler St., Shreveport, for brick veneer building; 40x60 ft., composition roof, double pine with shipcork floors; furnishings, etc., \$2000; items to be purchased include pulpit furniture and pews. Address Dr. Lang.\*

La., New Orleans—Rogers-Higgins Co., Carondelet Bldg., has contract for automatic fuel oil burning heating system in \$175,000 building for Church of Our Lady of the Holy Kosary, 3368 Esplanade Ave.; Rathbone De Buys, Archt., Hibernia Bank Bldg.; J. A. Petty, Contr., Godchaux Bldg.\*

Md., Baltimore—Bethlehem Evangelical Lutheran Church let contract to E. Eyring Sons Co., 3501 Fait Ave., for 1-story brick chapel, S. E. cor. Belair Rd. and Clifton Ave.; John J. Zink, Archt., 126 Overland Ave.

Md., Baltimore—Harlem M. E. Church, Rev. E. P. Fellenbaum, Pastor, 2426 W. Lanvale St., let contract to Selmour Ruff & Co., 2133 Maryland Ave., for masonry work on \$125,000 building, Harlem and Warwick Aves., to replace structure previously noted burned; Gothic type, 60x136 ft., stone; auditorium to accommodate 600 to 700, social hall, Sunday school; Geo. E. Savage, Archt., Witherspoon Bldg., Philadelphia.\*

Md., Hagerstown—Grace United Brethren Church, Rev. G. I. Rider, D. D., Pastor, let contract for \$45,000 addition to G. W. Anderson, 102 Belmont Rd., Hamilton, Baltimore; 1 story and basement, 59x102 ft., brick veneer, concrete foundation, composition roof, hardwood floors, steam heat.\*

Tenn., Nashville—Meridian Street Methodist Church, T. B. Rawls, Chmn. Bldg. Comm., let contract to A. E. Austin, care Austin-Hardison Co., for first story of Sunday-school unit, Cleveland and Meridian Sts.; cost \$20,000; ultimate plans call for 2 additional stories to structure.

Tex., Brenham—St. Paul's E. L. Church, Rev. Arthur Hartmann, Pastor, let contract for \$65,000 building to Walker Construction Co., Houston Bldg., San Antonio; fireproof, brick and concrete, 3 stories and basement, 104x56 ft., concrete floors and foundation, ventilators, rolling partitions; electric work, Braden-Hudson Co., 305 E. Commerce St., San Antonio; Alfred C. Finn, Archt., Goggan Bldg., Houston.\*

Tex., Taylor—First Baptist Church, Rev. T. C. Jester, Pastor, let contract on cost plus basis to W. M. Arbuckle for \$25,000 to \$30,000 concrete and brick basement of \$65,000 brick building, Seventh and Davis Sts.; 128 x 93 ft., concrete floors and foundation, hollow tile, metal ceiling, plaster board, rolling partitions, steel sash and trim; C. H. Leinbach, Archt., Deere Bldg., Dallas; electric work and plumbing to F. Kutzschbach. Address proposals on furnishings, etc., including seats, to Trustees, First Baptist Church.\*

Va., Norfolk—South Norfolk Christian Church, Rev. O. D. Poythress, Pastor, will erect \$60,000 building, Jackson St., after plans by J. M. McMichael, Charlotte, N. C.; brick, stone and concrete, 3 stories, 103x70 ft., concrete and No. 1 pine floors, concrete foundation, slate roof, interior tile, vault lights, ventilators, rolling partitions, steel sash and trim, wire glass; foundation placed, brick purchased; no contract. Address Geo. M. Herbert, Jackson St. (See Machinery Wanted—Steel; Furniture; (Church); Organ Lumber; Heating Plant; Electric Work; Plumbing.)\*

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Miss., Grenada—Ancient Free and Accepted Masons, Rev. W. E. Farr, Chmn. Bldg. Comm., let contract at \$45,131 to Moss Bros. for temple, Main and Second Sts.; 2 stories and basement, terra cotta finish; Claude H. Lindsley, Archt., 50-53 Kress Bldg., Jackson; heating, plumbing and electric work to J. H. Jackson.

Tex., Galveston—Salvation Army, 1701 Sixteenth St., C. H. Burch, Capt., will erect \$15,000 citadel, 204 Nineteenth St.; 1 story, 40x80 ft., tile and stucco; movable stage; J. W. Zempter, Contr., 2321 F St.

### Bank and Office

Fla., Melbourne—Melbourne State Bank let contract for \$50,000 fireproof building, New Haven Ave., to Albert Vorkeller; 2 stories, 35x80 ft., Tennessee marble floors, concrete foundation; heating, lighting, plumbing, etc., in gen. cont.; Hampton & Ehman, Archts., Congress Bldg., Miami.\*

Ky., Louisville—John P. and I. F. Starks, care Starks Realty Co., Starks Bldg., let contract for steel in \$1,000,000 addition to 14-story Starks Bldg., Fourth and Walnut Sts.; 14 stories, 147x160 ft., 10 elevators; arcade with stores on first floor, offices above; Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill.; Nevin, Wischmeyer & Morgan, Asso. Archts., Starks Bldg.\*

La., New Orleans—Following contracts let for work on \$1,225,000 Union Indemnity Co., 830 Union St., fireproof office building, Baronne and Gravier Sts., for Guarantee Development Co.; hollow tile, Vulcan Tile & Brick Co., 2103 First Ave. N., Birmingham, Ala., (New Orleans office 317 Baronne St.); sheet metal, American Sheet Metal Works, 5300 S. Carrollton Ave.; roofing, Salmen Brick & Lumber Co., 3901 Carrollton Ave.; painting, M. G. Rapp, 1684 N. Gayoso St.; refrigerating, Rantz Engineering & Machine Works, 4120 S. Carrollton Ave.; fuel oil burning heating system, Rogers-Higgins Co., 710 Carondelet Bldg.; mail chutes, J. T. Mann & Co., 319 Dryades St.; finished hardware, A. Baldwin & Co., Camp and Common Sts.; Moise H. Goldstein and Favrot & Livaudais, Archts., both Hibernian Bank Bldg.; O. M. Gwin Construction Co., Contr., Canal-Commercial Bldg.\*

Miss., McComb—First National Bank will erect 1-story, 30x47-ft. addition for vault; cost \$25,000, concrete and steel roof and foundation, concrete and tile floors, furnishings, equipment, \$1500; items to be purchased include reinforcing steel, vault steel, burglar and fireproof Mosler Don-Steel vault; B. V. Slader has contract at \$13,000, not including vault equipment; electric lighting, A. H. Jones; plumbing, P. Nielsen. Address proposal for 1 office elevator to C. H. Lindsley, Archt., Kress Bldg., Jackson.\*

Miss., Okolona—Malone & Bowden Tile &

Marble Co., Memphis, Tenn., has contract at about \$14,000 for furnishing and installing marble, bronze and mahogany fixtures in \$35,000 building for Okolona Banking Co.; Claude H. Lindsley, Archt., Kress Bldg., Jackson; Standard Construction Co., Gen. Contr., Meridian.\*

S. C., Rock Hill—Walton Engineering Co. has contract for plumbing work in connection with remodeling work and 5-story addition to Peoples National Bank, C. L. Cobb, Cashr.; Chas. C. Hartmann, Archt., Jefferson Standard Bldg., Greenboro, N. C.; Walter Kidde & Co., Inc., 140 Cedar St., New York, contr. at \$70,000, exclusive of plumbing, heating and wiring.\*

Tex., Amarillo—Amarillo Building Co., E. O. Thompson interested, will erect \$475,000 fireproof office building, Third and Polk Sts.; reinforced concrete frame, face and common brick, Bedford stone trim, tile and marble wainscoting, 8 stories and basement, 50x140 ft.; stores on first floor; Shepard & Wiser, Archts., R. A. Long Bldg., Kansas City, Mo.; Fred Bone Construction Co., Contr.

Tex., Houston—R. S. Sterling, Humble Oil Bldg., Chmn., Board of Directors of Houston Printing Co., publishers of Houston Post-Dispatch, will erect 16-story store and office building, Texas Ave. and Fannin St.; cost over \$1,000,000, 120x125 ft., Bedford limestone exterior, concrete floors, other flooring not determined, reinforced concrete foundation, roofing not determined, hollow tile, metal doors, mail chutes, ventilators; Sanguinet, Staats, Hedrick & Gottlieb, Archts., Carter Bldg.; Don Hall, Contr., Cotton Exchange Bldg.\*

Tex., Houston—Warren Co., 1214 McKinney St., has contract for heating work, bank and office building, for Public National Bank, Main and Preston Sts.; electric work, Barden Electric Co.; elevator not let; Jas. Ruskin Bailey, Archt., 1606 Main St.; Southwestern Construction Co., West Bldg., contract at about \$350,000.\*

Tex., Kaufman—Farmers & Merchants National Bank let contract Dec. 12 to Goodbar & Page, Deere Bldg., Dallas, for brick and concrete bank building; 2 stories, 50x100 ft., wood floors, tar roof; plumbing in gen. cont.; equipment, furnishings, etc., \$1500; items to be purchased include heating plant; Thomson & Swaine, Archts., S. W. Life Bldg., Dallas; work under way.\*

### Churches

Ark., Blytheville—First Baptist Church, Rev. W. W. Kyzar, Pastor, let contract for \$40,000 addition.

Fla., Tampa—Tenth Avenue Baptist Church, Rev. L. A. Rawls, Pastor, 3102 Eleventh Ave., let contract for church and Sunday-school building to Ponder-Hammell Co., 415 W. Tenth St., Jacksonville; first unit to cost \$40,000; brick and concrete, 2 stories, con-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Va., Petersburg—St. Joseph R. C. Church, Rev. E. P. Kilgallen, Pastor, let contract for interior decoration to O. J. Kover & Son, Fort Wayne, Ind.

### City and County

Ga., Macon—Stadium—City, M. E. Goode, Chmn., Stadium Comm., let contract at \$91,838 to R. H. Smalling's Sons for reinforced concrete and hollow tile Centennial Stadium; Ireland, Roberts & Co., Engrs., Independent Life Bldg., Nashville, Tenn.; Dennis & Dennis, Supervising Archts., 411 Cherry St.\*

Tex., Ballinger—Jail—Runnels County, Paul Trimmer, Judge, let contract at \$49,600 to Southern Steel Co., 4500 blk. S. Presa St., San Antonio, for brick and steel jail, Courthouse Square; work to start in about 30 days; 3 stories, about 40x40 ft., concrete floors, reinforced concrete foundation, metal doors, composition roof; W. E. Simpson Co., Archts., National Bank of Commerce Bldg., San Antonio. Address County Judge.\*

### Dwellings

Ala., Wetumpka—Dr. S. T. Cousins is erecting residence, N. Bridge St.

Fla., Cedar Key—Standard Lumber Co., Live Oak, D. H. May, Cedar Key, will erect about 35 dwellings in connection with mill development; work started.

Fla., DeLand—Floyd Felt, South Boulevard, let contract at \$13,000 to C. E. Shawver, Box 928, for Colonial frame residence; 2 stories, 40x24 ft., oak and pine floors, brick and clay foundation, composition roof, hot air heating not let; plumbing to Bob Lumpkin; plans by Contr.; address proposals for equipment, furnishings, etc., \$2500, to Mr. Felt.

Fla., DeLand—C. E. Shawver, Box 928, has contract for \$18,000 residence; construction started.

Fla., Fort Pierce—Mrs. Sarah Tucker let contract for \$25,000 Spanish type residence, Avenue 4, E. of Fourth St., to Geo. J. Hipp; frame, stucco, 2 stories John N. Sherwood, Archt., Fort Pierce and Miami.

Fla., Jacksonville—J. H. Tucker, 1523 Montague Terrace, let contract to C. C. Clayton for 5 frame dwellings, Riverside Place; 1 story, frame, cost \$3300 each.

Fla., Miami—D. B. Roberts, Hartford, Conn., will erect three \$25,000 dwellings, Hibiscus Island; Ellis & Co., Contrs.

Fla., Miami—Northern Development Co., 59 N. E. Second St., will erect 40 Spanish type dwellings, Sunkist Grove on Gratigny Blvd.; total cost about \$150,000; Laurence M. Loeb, Archt., New Rochelle and Miami; work started.

Fla., Miami Beach—Robt. W. Gifford will erect \$34,000 residence; Borg & Roller, Archts.-Contrs.\*

Fla., Orlando—L. R. May has started work on residence, Orwin Manor; Geo. E. Krug, Archt.

Fla., Sarasota—R. E. Brown & Co., will erect cottage Audubon Place; Alex Brown, Archt., MacKay & Rigby, Contrs.

Fla., Sarasota—A. B. Edwards will erect bungalow, Shenandoah Terrace; Alex Brown, Archt.; Newburger & Schmidt, Contrs.

Fla., Sarasota—C. L. Richardson, Jr., P. O. Box 1538, is erecting 5 dwellings; cost \$4000 to \$7500 each.

Fla., Sarasota—E. E. Booth will erect \$20,000 residence, McClelland Park; T. M. Bryan, Archt.; Martin & Borland, Contrs., 52 E. Mark St., Orlando.

Fla., Sarasota—Jas. A. Thompson, 2925 Tamp St., Tampa, has contract to erect 13 dwellings, Gillespie Ave.

Fla., Sebring—Murphy-Otto Co. let contract for number of Spanish type bungalows; cost \$7000 to \$10,000 each.

Fla., Sebring—Marfisi & Coleman let contract to Ott & Murphy for 6 dwellings S. of Kenilworth Lodge; cost \$2400 to \$4800 each.

Fla., Tampa—Church & Goodall, Contrs., Indianapolis, Ind., purchased 6 lots, Two Pines, and will erect dwellings; foundations started.

La., New Orleans—E. J. Stewart & Co., Inc., 203 Queen & Crescent Bldg., will receive sub-bids in about 3 weeks for 20 double cottages, Eden, Eve, S. Hagan and S. Rendon Sts.; cost \$6000 each; 1 story, frame, tile roofs, plaster walls, gas heat.

La., New Orleans—Victor Huber, 5055 Canal St., will erect 4 dwellings, Country Club Gardens; work to start in about 3 months; sub-contracts.

La., New Orleans—W. Boyd Petty, 1936 Elysian Fields Ave., will erect bungalow, St. Roch St. and Gentilly Blvd.; J. A. Petty, Contr., Godchaux Bldg.

La., New Orleans—S. Sokolsky, 336 Baronne St., will erect \$12,000 bungalow, Audubon St. near Zimble St.; day labor.

Md., Baltimore—Solomon Narunsky, 3716 Springdale Ave., will erect 8 brick dwellings, N. side Baker St., E. of Poplar Grove St.; 2 stories, 19x31 ft., slag roofs; total cost about \$25,000; Geo. Wessel, Archt., 3001 Lyttleton Rd.; owner builds.

Md., Baltimore—G. B. Lohmuller, 2609 Greenmount Ave., will erect 5 dwellings, S. W. cor. 30th and Frisby Sts. and 8, Boone St. N. of 27th St.; 2 stories, brick, various sizes, Carey roofs, furnace heat; total cost about \$30,000; plans by owner; Lohmuller Building Co., Contr., 2609 Greenmount Ave.

Md., Baltimore—Mutual Construction Co., 5606 York Rd., will erect \$10,000 residence, Oak Lane N. of Cedarcroft Rd.; 2½ stories, 29x36 ft., frame, slate roof, hot water heat; plans and construction by owner.

Md., Baltimore—E. J. Schlissler, 119 Southern Ave., will erect 6 two-story dwellings, Lafayette Ave. and Spedden St. N. of Lanvale St.; 16x36 ft. and 17x36 ft., furnace heat; total cost about \$42,000; owner builds.

Md., Baltimore—Walbrook Construction Co. will erect 5 brick dwellings, E. side Cedar Ave. N. of 34th St.; 2 stories, 13x38 ft., steam heat; total cost \$12,000; E. C. Bankert, Archt., 5511 Garrison Ave.; owner builds.\*

Md., Baltimore—E. G. Brown will erect brick residence and garage, S. E. cor. Park Heights Ave. and Charles Lane; 2½ stories, 37x41 ft. and 20x23 ft., slate roofs, vapor heat; Thos. Shutt, Archt.; Wm. A. Harting, Contr.

Md., Baltimore—D. Goodfriend, Inc., 4301 Fimlico Rd., will erect 15 frame dwellings, Carlisle Ave. near Lyndhurst St.; 1½ stories, 26x28 ft., slate roofs, steam heat; total cost \$35,000; owner builds.

Md., Baltimore—Henry F. Tiede, 3408 Auchentorothy Terrace, will erect \$30,000 residence Stratford Rd. and St. Paul St. Guilford; 3 stories, 40x77 ft., brick; Thos. Hicks & Sons, Contrs.

Md., Baltimore—Maryland Realty Co., 243-69 Calvert Bldg., will erect 43 brick dwellings, N. and S. sides Cliftwood Ave. E. of Belair Rd.; 2 stories, 20x34 ft., 21x34 ft. and 22x34 ft., hot air heat; total cost about \$130,000; Fredk. E. Beall, Archt., 306 St. Paul St.; owner builds.\*

Mo., Clayton (Ind. Branch St. Louis)—Elise K. Ghio, 757 Westgate St., will erect \$15,000 brick residence, Southmoor; 70x36 ft.; Nolte & Nauman, Archts., Fullerton

Bldg.; E. G. Bergfeld Investment & Construction Co., Contr., 610 Chestnut St.; both St. Louis.

Mo., Jefferson City—W. L. Walls, Contr., is erecting 15 bungalows, Clark Ave., Jas. A. Houchin addition; 2 nearing completion.

Mo., St. Louis—C. G. Fischer, 4214 Louisiana St., will erect 4 brick dwellings, 3657-69 Fillmore St.; 1 story, 28x29 ft., asbestos shingle roofs, hot air heat; total cost \$20,000; J. G. E. Hinrichs, Archt., 5238 Neosho St.; owner builds.

Mo., St. Louis—P. Sturmfels, 4800 Virginia St., will erect 3 brick dwellings, 3200-08 Liberty St.; 1 story, 27x34 ft., composition roof, hot air heat; total cost \$10,500; owner builds.

Mo., University City (Station St. Louis)—E. H. Guest, 2116 Adelaide St., will erect \$11,000 brick residence, 575 Purdue St.; 2 stories, 24x34 ft., T 13x17 ft., slate roof, hot water heat; C. Koenig, Archt., 3621 Gravois St.; Chris Spoeneman, Contr., 4142 Farlin St., both St. Louis.

S. C., Great Falls—R. S. Mebane, Jr., let contract for residence to Piedmont Contracting Co., Chester; cost about \$14,000, exclusive of heating and plumbing; Alfred D. Gilchrist, Archt., Rock Hill.\*

S. C., Bamberg—S. A. Marchant will erect residence; Columbia Lumber & Manufacturing Co., Contr.

Tex., Hale Center—Mike H. Thomas, Thomas Bldg., Dallas, has started work on 11 dwellings, 5 miles N. W. of Hale Center, 3 in southern part of Hale County and 6 in Swisher County, 9 miles E. of Kress; work under supervision of Mr. Bohen, Dallas; dwellings about 28x28 ft., 4 rooms each; sheds, barns and outbuildings.

Tex., Dallas—Murphy-Bolanz Co., 1215 Commerce St., plans to erect about 150 dwellings during 1925; cost about \$2750 each, 5 rooms, frame, sleeping porches, baths; A. S. Childers, Contr., 115 Field St.; painting to Roy Connor; plumbing, T. L. Benning, 1000 Ann St.; wiring, Emerson & McClure, 314 N. Harwood St.\*

Tex., Fort Worth—Dr. M. J. Bisco, B. Burnett Bldg., will erect \$20,000 residence, 2141 Pembroke Court; 10 rooms, brick; J. Vaughn, Contr., 2620 Prairie St.

Tex., Kress—Mike H. Thomas, Thomas Bldg., Dallas, has started work on 8 dwellings, 9 miles E. of Kress; about 28x28 ft., 4 rooms, sheds, barns and outbuildings; work under supervision of Mr. Bohen, Dallas.

Tex., Waco—Ben Clements is erecting \$32,000 residence, Bosque Blvd.; 2 stories, brick; Birch D. Easterwood, Archt., Liberty National Bank Bldg.; H. A. Bruyere, Contr., 903 N. 15th St.

W. Va., Bluefield—R. E. Baldwin has started work on 2 additional brick dwellings, Tazewell Ave.

Va., Richmond—Laburnum Realty Corp., 924 E. Main St., has started work on 6 dwellings, Westover Hills development; cost \$10,000 to \$14,000 each.

### Government and State

Ga., Douglas—Postoffice—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract at about \$42,000 to Dean & Grogan, Box 775, Williams-town, Mass., for brick and tile non-fireproof postoffice, Ashley St.; 2 stories, 58x52 ft., Georgia pine and concrete floors, brick foundation, slag roof; heating, electric work and plumbing not let; items to be purchased include brick, tile, steel, hollow tile, millwork, miscellaneous iron, ash-lift, cement, crushed stone, sand glass. Address Contrs., Douglas.\*



Va., Norfolk—Floor Repairs—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract at \$31,185 to Conrad Bros., 219 Citizens Bank Bldg., for repairs to floors at Naval Base.

### Hotels and Apartments

Fla., St. Petersburg—George A. Fuller Co., New York City and 113 S. E. First St., Miami, has contract for erection of Hotel Rolyat in Country Club section of Pasadena Estates, near Boca Ciega Country Club golf course; Spanish type; Klehnel & Elliott, Archts., Central Arcade Bldg., Miami; address Pasadena Estates, Jack Taylor, Pres., 661 Central Ave.

Ga., Albany—Albany Hotel Co., E. B. Young, Pres., let contract to Shelverton Construction Co., Atlanta Trust Co. Bldg., Atlanta, at \$425,000, for replacing New Albany Hotel with 7-story, reinforced concrete, fireproof, 150x103 ft. hotel building; contain 125 guest rooms, lounge rooms, dining room, coffee shop, retail shops, etc.; tar and gravel roof, marble tile, composition, concrete floors, hollow tile, interior tile, metal doors, mail chutes, ventilators, ornamental limestone, steel sash and trim, wire glass; 2 passenger and 1 freight elevator; Seckinger Bros., Forsyth Bldg., heating and plumbing; Walker Electric & Plumbing Co., 91 Peters St., electric work; financed by G. L. Miller & Co., Hurt Bldg.; Raymond C. Snow & Co., Archts., Hurt Bldg.; all Atlanta.\*

Ga., Macon—Marks Kessler let contract to Joe Bishop for \$100,000, 3 or 4-story hotel on Cherry St. between Terminal Station and Broadway; contain 100 rooms, each with tub or shower bath; on ground floor will be cafe, lobby, sample display rooms and store; 35x80 ft.; Claude W. Shelverton, Archt.

Ky., Ashland—Bruce & Hager is erecting \$15,000, 2-story 4-room apartment building on Winchester Ave.

Mo., Kansas City—Westport Hotel Operating Co., incorporated with George H. Siedhoff, Wichita, Kansas, Pres.; Jacob J. Taxman, Vice-Pres., 3743 Tracy St., and Ben. Natkin, Pres., Natkin Engineering Co., Sec. & Treas., and plans to build and operate \$2,000,000, 12-story hotel at N. E. cor. Fourteenth and Baltimore Ave.; will contain 426 renting rooms, all with bath, assembly hall to seat about 1000, will be faced with variegated brick with terra cotta trim, in shape of "U"; Shepard & Wiser, Archts., 1209 R. A. Long Bldg.; Geo. H. Siedhoff Construction Co., Hotel Broadview, Wichita, Kansas, will build.

Mo., St. Louis—Alco Investment Co., 808 Chestnut St., let contract to V. A. Chinberg, 808 Chestnut St., for \$60,000, 3-story and basement, 37x75-ft., brick, 12-family flat building at 3435-37 Shenandoah; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Claxton Investment & Construction Co., B-17 Railway Exchange Bldg., will erect three 2-story, 38x51-ft. tenements at 5382-88 Claxton and 5316 Harney Sts.; \$24,000, composition and tile roofs, hot air heat; owner is builder and architect.

Mo., St. Louis—H. H. Bode, 619 Chestnut St. will erect nine 2-story, brick 26x51 ft. tenements at 4300-28 Grace St.; \$72,000, composition roof, hot water heat; K. W. Moses, Builder & Archt., 4935 Wise St.

Mo., St. Louis—W. Brinkop, 619 Chestnut St., will erect nine 2-story, brick 26x51 ft. tenements at 4423-31 S. Grand St.; \$24,000, composition roof, hot water heat; K. W. Moses, Bldr. & Archt., 4935 Wise St.

Mo., St. Louis—Trade Realty & Building Co., 111 N. Seventh St. let contract to B. S. Cornwell, Title Guaranty Co., for 2-story

tenements, 5135-45 Lexington St.; \$24,000, each 24x44 ft., composition roof, furnace heat.

Mo., St. Louis—Edgepark Realty Construction Co., 1205 Fullerton Bldg., let contract to Robert Vickery, 5149 Ridge Ave., for \$15,000, 2-story and basement, 27x47-ft., brick, 4-family flat building, Claytonia Terrace, Richmond Heights; A. B. Ridington, Archt., 1205 Fullerton Bldg.

Mo., St. Louis—J. O'Hearn, 2129 Obear, let contract to C. Spooneman, 4142 Farlin St., for \$10,000, 2-story, brick, 34x36-ft. tenement at 4453 Floriss Place; composition and gravel roof, hot air heat; Nolte & Nauman, Archts., Fullerton Bldg.

Mo., St. Louis—V. P. Rogers, 4958 Wise Ave., let contract to Robert Vickery, 5149 Ridge Ave., for \$15,000, 2-story and basement, 27x47 ft., brick, 4-family flat building, Claytonia Terrace, Richmond Heights; B. Ridington, Archt., 1205 Fullerton Bldg.

N. C., Wilmington—Hinton Hotel Co., Capt. Edgar L. Hinton, Vice-Pres. and Mgr. of Seashore Hotel, let contract to Morton & Cox for 60-room addition.\*

Tenn., Greeneville—Mrs. E. J. Brumley has let contract for converting residence on Main St., into double apartment.

Tex., Raymondville—R. F. Prince has contract for erection of \$40,000, 100x75 ft., 2-story hotel building, Seventh St. and Kimball Ave.; J. C. Harris, Ashton, Ark., is promoting.

Tex., Beeville—Beeville Hotel Co. let contract to H. J. Hanson & Son, at \$61,399, for 3-story, 64x124-ft., concrete, steel and tile, 50-room Kohler Hotel building; tile, cement and concrete floors, cement roofing, concrete foundation, hollow tile, interior tile; will open bids about May 1 for bedroom, dining room and kitchen equipment, etc., to cost about \$18,000; A. H. Shafter, 418 N. St. Mary's St., San Antonio, low pressure steam heat; Burrows Hardware Co., plumbing; W. C. Stephenson, Archt.; address A. V. Schwab.\*

Tex., Dallas—Mrs. Lillie H. Brown let contract to Frank J. McClure, E. Grand St., for \$35,000, 2-story, brick veneer apartment building at 2103-5 Jintown Road.\*

Va., Tappahannock—C. A. Wachmuth is erecting \$10,000, frame, 3-story hotel; slag roof, wood floors; Carneal & Johnston, Archts., Virginia Rwy. & Power Bldg., Richmond; owner builds.\*

Va., Virginia Beach—N. D. Maher, 1124 Second St., S. W., Roanoke, is chmn. of committee for erection of tourist hotel on 60-acre tract; cost of hotel \$750,000 and entire project \$1,310,000; will immediately start stock-selling campaign; J. G. White Engineering Corp., 43 Exchange Place, New York City, has tentative contract to build and American Hotel Corp. tentative contract to operate; plans include 18-hole golf course; Hockenbury System, Inc., Harrisburg, Pa., will put on financial campaign.\*

### Miscellaneous

Fla., Arcadia—Clubhouse—Arcadia Golf Club let contract to J. A. Christ for clubhouse; sitting room 18x40 ft., office and locker room containing 50 lockers, 10-ft. porch extending around 2 sides.

Fla., Eau Gallie—G. L. Knowles let contract to erect interlocking tile and stucco market building on Highland Ave.

Fla., Haines City—Julius Johnson has contract for 2-story community bathhouses for subdivisions to be opened by W. T. Brooks, L. B. McLeod and H. W. Bledsoe.

Fla., Hollywood—Arcade—John W. Ingram purchased Hollywood Garage, First Ave. and

the Blvd. and will build arcade containing 10 stores and offices; interior and exterior will be remodeled, build plate glass show windows, etc.; work in charge of D. T. Rife, Contr. & Bldr.

Md., Baltimore—John Chaudron, Park Heights Ave., will erect \$10,000, 1-story, 53x112 ft., brick building at 6 and 8 E. Lafayette Ave.; Buckler & Fenhagen, Archts., 325 N. Charles St.; C. W. Schmidt, Gaither Estate Bldg.\*

Md., Salisbury—Home for Aged Building Committee let contract to Wm. E. Booth & Son for 3-story, brick and concrete, fireproof, 40x106-ft. Home for Aged; mastic and concrete floors, slate roof, concrete foundation; Lewis Morgan, heating; Electric wiring, Richardson Bros. Co., plumbing; all Salisbury; Henry P. Hopkins, Archt., 347 N. Charles St., Baltimore; desires sub-bids on plastering, erecting metal lath partitions and roofing.\*

Tex., Weatherford—Home—Knights of Pythias, Chas. E. Baughman, 1613 Congress Ave., Austin, Chmn. Building Comm., let contract to J. M. Gurley, 800 Galveston St., Fort Worth, for \$75,000, 51x147, 2-story, brick, stone and reinforced concrete, fireproof girls' dormitory building; J. B. Davies, Archt., 1308 Hemphill St., Fort Worth.\*

W. Va., Huntington—Fair Building—Vanity Fair Building Co., care Dr. Richard Stern, First Natl. Bank Bldg., let contract to Huntington City Lumber & Supply Co., at \$55,000, for 2-story, brick and steel, 120x200 ft. Vanity Fair building; cement and wood floors, built-up roof, concrete foundation; Huntington Iron Works, Adams St., has contract for structural steel at \$15,154; Meanor & Handloser, Archts., Robson-Pritchard Bldg.\*

### Railway Stations, Sheds, Etc.

Ala., Union Springs—Birmingham & South-Eastern Ry. Co., Roberts Blount, Supt., has started work on 2-story freight depot.

### Schools

Fla., Palmetto—St. Landry Parish School Board, W. B. Prescott, Supt., Opelousas, let contract to J. P. McCann & Son, Baton Rouge, at \$47,800, for 2-story, brick and wood joist school building; wood and concrete floors, Barrett roof, metal ceilings; Herman J. Duncan, Archt., 120 Murray St., Alexandria.\*

Ga., Dalton—American Thread Co. of Georgia let contract to LaGrange Lumber & Supply Co., LaGrange, for 8-room school building and store building; hollow tile and stucco, composition roof, \$35,000; Lockwood, Greene & Co., Engrs., Atlanta.\*

Ga., Rocky Ford—Board of Trustees, Dr. H. W. Doster, Chmn., let contract to J. D. Hancock for \$25,000, 1-story, brick veneer, 8-room and auditorium school building; composition shingle roof, concrete foundation, pine floors; Scroggs & Ewing, Archts., Lamar Bldg., Augusta.\*

La., Grand Cane—DeSoto Parish School Board, Mansfield, let contract to Bowman & Blaine, Many, for \$60,000, 2-story school building; face brick with stone trimmings, 11 rooms and auditorium; J. W. Smith, Archt., Monroe.\*

La., New Orleans—St. Rose Parochial School let contract to Lionel F. Favret, 402 Louisiana Bldg., for \$68,000, 3-story, brick walls, wood joists school building on Columbus between Broad and Dorgenois Sts.; wood floors, concrete foundation, built-up composition roof, plaster board, interior tile, metal doors, ventilators, ornamental terra cotta,

steel sash and trim; Paul Andry, Archt., Carondelet Bldg.\*

Mo., Columbia—University of Missouri, Edward E. Brown, Bus. Mgr., let contract to Stewart Bros. for extension of Medical Building; J. Louis Crum, heating and plumbing; J. K. Fyfer, electric work.\*

N. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt., let contract to J. D. Foard, for \$48,000 addition to Dilworth School; 2 stories, 8 rooms, brick and tile construction; W. G. Rogers, Archt., Latonia Bldg.

N. C., Liberty—Randolph County Board of Education, Asheboro, let contract to J. R. Owen, Asheboro, at \$44,000, for 2-story, brick, 11-classroom high school building; rift pine and concrete floors, concrete foundation, Barrett roof, plaster board; Burlington Hardware Co., Burlington, heating, plumbing and wiring; address T. Fletcher Bulla, Supt.

N. C., Red Springs—School Board, A. P. Spell, Sec., let contract to J. W. Hudson, Jr., Tarboro, at \$54,288, for brick and frame, 2-story and basement High School building; Barber asphalt roof, concrete foundation, pine floors, hollow tile, ornamental terra cotta, ventilators; Leslie N. Boney, Archt., Murchison Natl. Bank Bldg., Wilmington; Burlington Hardware Co., Burlington, heating at \$3741 and plumbing at \$1884; Holmes Electric Co., electric work at \$735.\*

S. C., Pluma Branch—Board of Trustees Plum Branch School District let contract to New Winder Lumber Co., Winder, for 1-story, brick and tile, 10-room and auditorium school building; pine floors, composition shingle roof; Scroggs & Ewing, Archts., Lamar Bldg., Augusta.\*

Tex., Plainview—Board of Education let contract to Harrison & Smyth for \$120,000, Junior High School building; 2 stories, brick, red tile roof, contain 16 classrooms, office and library rooms; Spencer & Ballinger, plumbing; Spencer & Nunn, Amarillo, electrical work.\*

Tex., Sour Lake—Board of Trustees, Sour Lake Independent School District, let contract to Clem F. Myers, 216 Temperance Bldg., for 3-story, reinforced concrete and brick addition to school building; Livesay & Wiedemann, Archts., 447 V. Wiess Bldg., both Beaumont.\*

### Stores

Ark., Fort Smith—Harry E. Kelly, 2118 South W St., let contract for erection of

building to be occupied by Crane Candy & Manufacturing Co., 10 Rogers St., Fourth and Parker Sts.; stone, 50x140 ft.

Fla., Bradenton—Tri-City Trust let contract to Artley-Denny Co. for 2-story, 58x86-ft. hollow tile and stucco building, Man and Park Sts., to contain 3 storerooms on ground floor with 16 office rooms above; steam heat, plate glass front.

Fla., Jacksonville—Frank H. June, 5 N. La Salle St., Chicago, plans to erect combination garage and store building to cost \$11,500; work in charge of Fred Schultz, South Jacksonville contractor.

Fla., Smyrna—Edward Wilson let contract to C. J. Lopez for 25x100-ft. brick building on Canal St.

La., New Orleans—Mrs. Hy. Sauvage let contract to A. M. Usner for \$11,000 store and residence in square St. Ann, Royal Chartres and Dumaine Sts.

Mo., Kansas City—Samuel Crawley Radiator Manufacturing Co., 2414 Grand, let contract to Van Sant Construction Co., 417 Dwight Bldg., for \$25,000, 1-story and basement, 100x100-ft. brick store building; private plans.

Mo., St. Louis—A. G. McGaskill will expend \$10,000 for altering 2-story store and hall at 3101 Olive St.; J. D. Paulus, Archt. and Builder, 4729 Northland St.

N. C., Raleigh—Haywood Real Estate Co., Ernest Haywood, Pres., Tucker Bldg., let contract to Kenyon & Thompson, Merchants Bank Bldg., \$46,390, 3-story store building at 203-5 Fayetteville St.; contain 5 rooms, steam heat, brick construction; Frank Simpson, Archt., 110 E. Lane St.

Tenn., Memphis—Liggett Co., 41 E. 42nd St., New York City, let contract to H. J. Gilbertson Construction Co., Goodbar Bldg., for extensive remodeling of building at 67½-71 Main St. to cost \$50,000; Pritchard Brothers, 433 Madison St., plumbing; State Heating & Power Co., 272 Walnut St., heating; William Slater Electric Co., 134 S. Second St., electrical fixtures and wiring; Otis Elevator Co., 246 Court St., elevators; Love Automatic Sprinkler Co., 63 S. Third St., sprinkler system; work includes erection of new front of copper, marble and glass; plans by Walter Thomas Williams, Liggett Co.'s Archt., and Joe T. Wallace, local Archt.

Tenn., Milan—Creswell Brothers, Contrs., will erect 4 brick business buildings.

Tex., Dallas—H. H. Page, 826 S. Windomere St., has started work on \$25,000, 2-

story, brick building at Tyler & Jefferson Sts., to be occupied on second floor by Independent Order of Odd Fellows lodge.

Tex., Beaumont—F. W. Steinman, Box 65, started work on \$12,000, 1-story, 70x60 ft., steel frame, brick panels store and filling station; reinforced concrete foundation, Barrett roof, concrete floors, metal ceilings, plate glass; F. W. Steinman & Son, Archts., 517 Kyle Bldg.; construction by day work.\*

Tex., Dallas—J. W. and L. A. Scott, Western Independent Bldg., let contract to Trinity Construction Co., 111 S. Poydras St., for \$20,000, 1-story, English type, brick and stucco business building at S. E. cor. Lindsay and Beacon Aves.

Tex., Del Rio—San Felipe Ditch & Irrigation Co. let contract to W. C. Perry, Bedell Bldg., San Antonio, at \$20,000, for two 1-story, reinforced concrete and brick store buildings.

Tex., Houston—James Furniture Co., Milam and Capitol Sts., let contract for erection of 2-story addition.

Tex., Plainview—Cox & Thompson let contract for 50x100 ft. building on Broadway; reinforced concrete slab floor.

W. Va., Fairmont—Nathaniel C. Cochran is converting residence on Cleveland Ave., into 2 store rooms with apartments above; T. L. Burchinal has charge of work.

### Theatres

S. C., Greenville—Col. W. H. Keith, Woodside Bldg., let contract to Morris-McKoy Construction Co., Finlay Bldg., for moving picture house on North Main St., to cost \$150,000; Greek architecture, finished in buff brick, trimmed with architectural terra cotta; semi-fireproof, 2 stories, 47x130 ft., composition flooring and roofing, concrete foundation; will be operated by Southern Enterprises, Inc., a subsidiary of Famous Players-Lasky Corp., 485 Fifth Ave., New York City; Beacham & LeGrand, Archts., North St.\*

Va., Charlottesville—J. W. Adams, P. O. Box 225, has contract for remodeling and rebuilding front part of New Jefferson Theater building; includes new lobby, foyer, entrance to galleries, new stores, hall to second and third floors, new basement under entire building; wants bids on marble, terra cotta, structural and ornamental steel, cork and composition floors, ticket booth, lighting fixtures and electrical work, marquee, plumbing and heating, fire doors.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Air Compressor.**—The Dublin Avenue Iron & Metal Co., 359 Dublin Ave., Columbus, Ohio.—Wants 1500 to 2000 cu. ft. air compressor to be motor driven, 3 phase, 60 cycle, 440 to 2300 volts.

**Automotive Supplies, etc.**—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Jan. 29 to furnish hardware, automotive supplies, etc., for Post Quartermaster, Marine Barracks, Quantico, Va.; Sch. 389.

**Automobile Repair Shop Equipment.**—John W. McCauley, Box 373, Roanoke, Va.—Wants automobile repair shop equipment.

**Belting.**—W. A. Carver, Rougemont, N. C.—Wants prices on belting, 4 to 8-in. wide.

**Bridge.**—State Highway Comm., Raleigh, N. C., will build 2 bridges. Details under Construction News—Road and Street Construction.

**Bridge.**—State Highway Comm., Montgomery, Ala., will build several bridges. Details

under Construction News—Road and Street Construction.

**Bridge.**—Ward and Reeves Counties, Bartow, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Harris County, Houston, Tex., will build 5 bridges and one culvert. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Adams County, Natchez, Miss., will build 3 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—State Highway Dept., Jefferson City, Mo., will build 10 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Alabama State Docks Comm., State Bldg., Mobile, Ala. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Travis County, Austin, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—State Highway Dept., Jefferson City, Mo., will build 4 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—Sarasota County, Sarasota, Fla., will improve 2 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

**Building Furnishings and Equipment.**—Edward E. Brown, Business Mgr., University of Missouri, Columbia, Mo.—Will receive bids in near future for the following furnishings for the Lee Harry Tate Memorial Hall: Steel library stacks and shelving, cork and linoleum flooring, students' desks, steel or case iron base student chairs, library chairs, desk swivel chairs, library and office tables, steel lockers, shades, electric light fixtures and vacuum cleaning equipment.

**Building Materials.**—W. E. Gupton Co., Inc., Oxford, N. C.—Wants prices on cement, brick, tile, steel and lumber.

In writing to parties mentioned in this department it will be of advantage to all concerned if the *Manufacturers Record* is mentioned.



**Building Material.**—J. W. Adams, Builder, P. O. Box 225, Charlottesville, Va.—Wants bids on marble, terra cotta, structural and ornamental steel in connection with remodeling and rebuilding New Jefferson Theater building.

**Canning Plant.**—H. O. Lowden, Kiwanis Club, Savannah, Ga.—Wants data on canning of syrup, blueberries, etc. with view to establish plant.

**Carpets.**—L. B. Jumper, Chmn. Bldg. Comm., First Baptist Church, Inman, S. C.—Wants carpeting for church.

**Cars.**—Reynolds Stone Co., 1711 E. Sixty-eighth St., Chicago, Ill.—Wants twenty 4-yd., 36-in. gauge or thirty 1½-yd., 24-in. gauge cars.

**Cars (Coal).**—A. H. Talbott & Co., 223 Railway Exchange Bldg., Chicago, Ill.—Wants prices on six all-steel, 55-ton capacity, standard gauge, battleship type, self-clearing hopper coal cars.

**Cars (Dump).**—D. C. Elphinstone (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants twenty 36-in. gauge V or flat bottom dump cars.

**Cement.**—See Building Materials.

**Coil Winding Machines.**—See Radio Testing Apparatus, etc.

**Concrete Reservoir.**—See Water and Sewer Systems.

**Crane (Truck).**—D. C. Elphinstone (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants truck crane mounted, 25-ft. boom, equipped with ½-yd. bucket.

**Crane.**—D. C. Elphinstone (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants 20 ton, 8 wheel locomotive crane with 50-ft. boom.

**Crane.**—Joseph Stoltz & Son, Inc., Commerce Ave., Highbridge Station, New York—Wants crane for plant handling structural iron; send full description, etc.

**Crane.**—Reynolds Stone Co., 1711 E. Sixty-eighth St., Chicago, Ill.—Wants one 8-wheel locomotive crane or crawler type.

**Crane (Locomotive).**—D. C. Elphinstone (Mchy. Dealer), 408 Continental Bldg., Baltimore, Md.—Wants 20-ton standard gauge, locomotive crane.

**Derrick.**—Joseph Stoltz & Son, Inc., Commerce Ave., Highbridge Station, New York—Wants derrick for use in yard handling structural iron; send full description, etc.

**Desks.**—See Office Supply and Fixtures.

**Dredge (Land).**—Chatham County Comms., G. Reuben Butler, Clk., Savannah, Ga.—Will receive bids Feb. 6 to furnish one internal combustion land dredge, equipped with not more than ¾-yd. capacity bucket, operated by at least 50 h.p. internal combustion engine.

**Electric Hoist.**—Wilson-Hock Co. (Mchy. Dealer), City Point, Va.—Wants electric hoist with 2000 ft. of ½-in. cable and operated by 3 phase, 60 cycle, 440 volt, 30 h.p. motor.

**Dredging.**—Office of Third Mississippi River Dist., Box 404, Vicksburg, Miss.—Will receive bids Jan. 27 for digging 125,000 cu. yds., drainage ditches.

**Dredging.**—U. S. Engineer Office, Baltimore, Md.—Will receive bids Feb. 20 to dredge in Baltimore harbor and channels.

**Dredging.**—U. S. Engineer Office, Wilmington, Del.—Will receive bids Feb. 10 to dredge Tuckerton and Absecon Creeks and Toms River, N. J.

**Electric Light Fixtures.**—Edward E. Brown, Business Mgr., University of Missouri, Columbia, Mo.—Wants electric light

fixtures for the Lee Harry Tate Memorial Hall; receives bids about May 1.

**Electric Lighting Fixtures.**—District Comms., Room 509 Dist. Bldg., Washington, D. C.—Will receive bids Feb. 2 to furnish and deliver electrical lighting fixtures.

**Fire Doors.**—J. W. Adams, Builder, P. O. Box 225, Charlottesville, Va.—Wants bids on fire doors in connection with remodeling and rebuilding New Jefferson Theater building.

**Electric Oven.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 29 for electric oven for the U. S. Veterans Hospital, American Lake, Washington.

**Electric Work.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants sub-bids on electric work for \$80,000 church.

**Filing Cabinets.**—See Office Supplies and Fixtures.

**Floors (Cork and Composition).**—J. W. Adams, Builder, P. O. Box 225, Charlottesville, Va.—Wants bids on cork and composition roofs in connection with remodeling and rebuilding New Jefferson Theater building.

**Flooring (Cork and Linoleum).**—See Building Furnishings and Equipment.

**Fly Wheel.**—Wilson Hock Co. (Mchy. Dealers), City Point, Va.—Wants fly wheel, 11 ft. diam. x 32-in. face, to weigh approximately 5 tons, to be made in two sections for use with 350 h.p. Corliss engine.

**Forms (Concrete Pipe).**—Screven County Comms., Jno. W. Howard, Clerk, Sylvania, Ga.—Wants forms to make 18-in., 24-in., and 30-in., concrete pipe; correspond with manufacturers.

**Furniture (Church).**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants church furniture.

**Generators.**—The Taylor Co., Box 118, Knoxville, Tenn.—Wants 8 to 12 kw., alternating current generator, 3-phase, 60-cycle, 220-volt, direct connected to steam engine; also 8 to 10 kw. direct current generator, 220-volt, belt type; used equipment.

**Generator Set.**—Wilson-Hock Co. (Mchy. Dealers), City Point, Va.—Wants engine generator unit, 150 kw., 3 phase, 60 cycle, 220 volt, direct connected to suitable engine.

**Gln Equipment.**—The W. K. Palmer Co., Engrs., 1016 Baltimore Ave., Kansas City, Mo.—Wants data and prices on building and equipping cotton gins; also correspond with manufacturers gln equipment.

**Grading.**—City of Richmond, Va. Details under Construction News—Road and Street Construction.

**Griddles (Cast Iron).**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 23 for 12 cast iron size 24x36 in.; delivery Chillicothe, Ohio.

**Hardware.**—See Automotive Supplies, etc.

**Harness Supplies, Leather, etc.**—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Jan. 26 to furnish harness supplies, leather, etc., for Post Quartermaster, Marine Barracks, Quantico, Va.; Sch. 388.

**Heating.**—See Plumbing and Heating.

**Heating Plant.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants heating plant for \$30,000 church.

**Hydants.**—See Water Supply System.

**Hydrants.**—Bennettsville Electric & Water Plant, Bennettsville, S. C.—Wants 15 hydrants.

**Laboratory Still.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 26 for laboratory still for U. S. Veterans Hospital, Aspinwall, Pa.

**Ladders (Step), etc.**—T. J. Caudle, Ra-

leigh, N. C.—Wants step and extension ladders; correspond with manufacturers.

**Lathe.**—Sun Manufacturing Co., 722 S. Twenty-sixth St., Louisville, Ky.—Wants bench lathe.

**Lathe.**—Wilson-Hock Co. (Mchy. Dealers), City Point, Va.—Wants lathe, screw cutting, 36-in. swing; must be modern; state price, etc.

**Lighting Fixtures.**—L. B. Jumper, Chmn., Bldg. Comm., First Baptist Church, Inman, S. C.—Wants lighting fixtures for \$45,000 church.

**Lighting Fixtures, etc.**—J. W. Adams, P. O. Box 225, Charlottesville, Va.—Wants bids on lighting fixtures and electrical work in connection with remodeling and rebuilding New Jefferson Theater building.

**Linoleum.**—Treasury Dept., Supvg. Architect's Office, Washington, D. C.—Will receive bids April 2 for linoleum floor covering in the U. S. Post Office, Honolulu, T. H.

**Loader.**—E. P. Lindsay, 312 King St., Portsmouth, Va.—Wants used loader, prefer Barber-Green; correspond with dealers in Richmond, Washington, Baltimore and Philadelphia.

**Lockers (Steel).**—See Building Furnishings and Equipment.

**Locomotives.**—Reynolds Stone Co., 1711 E. Sixty-eighth St., Chicago, Ill.—Wants two locomotives.

**Lumber.**—See Building Materials.

**Lumber.**—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Jan. 30 to furnish 15,300 B. M. feet of North Carolina pine lumber, for Post Quartermaster, Marine Barracks, Quantico, Va.; Sch. 390.

**Lumber.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants lumber for \$60,000 church.

**Mechanical Equipment.**—Treasury Dept., Supvg. Architect's Office, Washington, D. C.—Will receive bids Feb. 6 for remodeling, including incidental changes in the mechanical equipment in the U. S. Postoffice at Clarksburg, W. Va.

**Metal Containers.**—W. W. Goldsmith, Box 171, Beckley, W. Va.—Wants soft metal tube containers for tooth paste and toilet preparations; correspond with manufacturers.

**Millwork.**—C. E. Shawver, Box 928, DeLand, Fla.—Wants information on millwork, including doors, for dwellings.

**Miscellaneous Supplies.**—Achille W. Goldenstein, Jassy, Roumanie—Wants to correspond with manufacturers of the following with view to representation: sheetings, shirts, suitings for men, grey yarns, surgical gauze, surgical absorbent cotton, hosiery, etc.

**Miscellaneous Supplies.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 26 for following: silk cloth, China, Habutai, for supply depot at Perryville, Md. and Chicago, Ill.; twelve axminster rugs 8-ft. 3-in. x 10-ft. 6-in. and fourteen of size 9x12-ft., delivery, Helena, Mont.; ward serving tables for U. S. Veterans Hospital, Dawson Springs, Ky.; and electric oven for U. S. Veterans Hospital, Chillicothe, Ohio.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids Jan. 30 to furnish pipe fittings, valves, cocks, flush pipes, conductor wire, railroad-crossing signals, watt-hour meters, motors, lighting arresters, cartridge fuses, switches, lamp cord, batteries, zincs, asbestos wood, reamers, punches, hammers, wrenches, shovels, tire valve plungers, tires and tubes, etc.

Blank forms and information (Circular 1650) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; also from U. S. Engineer offices throughout the country.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids Jan. 23 to furnish tile, copper wire, steel tiller rope, controller segments, sprayers, steel and copper tubing, copper bars, brass and zinc sheets, water gauge glasses; blowoff cocks, fusible plugs, dies and taps, stamping letters, file handles, chair seats, etc. Blank forms and information (Circular 2370) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

**Motor.**—The Taylor Co., Box 118, Knoxville, Tenn.—Wants 3 h.p. motor, 3 phase, 60-cycle 220-volts, about 1800 r.p.m., with pulley; used equipment.

**Motors (Synchronous).**—C. M. Roswell (Mech. Dealer), Jefferson Bldg., 1015 Chestnut Bldg., Philadelphia, Pa.—Wants one 100 h.p. or 75 h.p., 3 phase, 60 cycle, 2300 volt, belted synchronous motor, direct connected exciter; A. C. starting motor preferred.

**Motorcycles.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Jan. 23 to furnish 20 motorcycles for Post Quartermaster, Marine Barracks, Quantico, Va.; Sch. 386.

**Office Supplies and Fixtures.**—City Comsn., Sanford, Fla., W. B. Williams, City Mgr.—Will receive bids Feb. 9 to furnish city hall with desks, filing cabinets, chairs and other supplies.

**Organ.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants church organ.

**Oven (Gas Bake).**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 26 for gas bake oven for the U. S. Veterans Hospital, Augusta, Ga.

**Pajamas.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 27 to furnish 250 doz. of size B, 415 doz. of size C and 170 doz. of size D flannel-ette pajamas; quotations f.o.b. point of shipment; also address where garments will be manufactured.

**Painting.**—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Will receive bids Jan. 28 for painting walls in City Solicitor's office in Courthouse, also for interior and exterior painting at No. 22 engine Co., Linwood Ave., and O'Donnell St.

**Painting.**—W. C. Rucker, Custodian, U. S. Marine Hospital No. 14, New Orleans, La.—Will receive bids Jan. 26 for exterior and interior painting of building.

**Paints, Brushes, etc.**—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Jan. 30 to furnish 25 gals. rubbing varnish, 25 lbs. Bismark brown paint, 75 gals. white enamel, 1000 gal. volatile mineral sprits, 10,000 lbs. white lead, 15 lbs. gold bronze powder, 5 gals. wood stain, 500 paint brushes, 4950 window glass lights, 25 lbs. glazier points, etc.; delivery Quantico, Va.; Sch. 391.

**Pasteurizing Outfit.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 27 for pasteurizing outfit for the U. S. Veterans Hospital, Aspinwall, Pa.

**Paving, Etc.**—City of Kingsport, Tenn.—Details under Construction News—Road and Street Construction.

**Paving.**—See Water Works, etc.

**Pipe (Galvanized, Iron).**—C. L. Richardson, Jr., Box 1538, Sarasota, Fla.—Wants prices

on 2-in. and 1½-in. galvanized iron water pipe in carload and less than carload lots.

**Planer and Matcher.**—W. A. Carver, Rougemont, N. C.—Wants prices on second-hand planer and matcher; state condition, etc.

**Paper.**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 27 for 200 rolls buff color, smooth finish paper; quote prices f.o.b. point of shipment.

**Paving.**—City of Kernersville, N. C.—Details under Construction News—Road and Street Construction.

**Pipe (Cast Iron).**—See Water and Sewer Systems.

**Pipe (Cast Iron), etc.**—Bennettsville Electric & Water Plant, Bennettsville, S. C.—Wants approximately 8000 ft. of 6-in., class C, cast iron water main and 15 hydants.

**Pipe (Cast Iron).**—See Water Supply System.

**Pipe Line (Floating).**—Alabama State Docks Comsn., Wm. L. Sibert, Chmn., State Office Bldg., Mobile, Ala.—Will receive bids Feb. 9 to furnish and deliver about 1200 ft. of floating pipe line for use with dredge.

**Plumbing.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants sub-bids on plumbing for \$60,000 church.

**Plumbing and Heating.**—J. W. Adams, Builder, P. O. Box 225, Charlottesville, Va.—Wants bids on plumbing and heating in connection with rebuilding and remodeling New Jefferson Theater building.

**Plumbing Fixtures.**—Treasury Dept., Architect's Office, Washington, D. C.—Will receive bids Feb. 6 for new plumbing fixtures, etc., for the U. S. Postoffice, Cairo, Ill.

**Porcelain Insulators.**—U. S. Engineer Office, Florence, Ala.—Will receive bids Jan. 28 to furnish and deliver porcelain insulators with cable clamp for 15,000 volt service.

**Pumping Station.**—City of Baton Rouge, La.—Will receive bids Jan. 29 for construction of pumping station at University Lake; work consists of pile foundation; reinforced concrete floors, brick walls and composition roof; J. W. Billingsley, Const. Engr.

**Radio Testing Apparatus, etc.**—Sun Manufacturing Co., 722 S. Twenty-sixth St., Louisville, Ky.—Wants radio testing apparatus of all kinds, also coil winding machines.

**Rails.**—J. C. Steele & Sons, Statesville, N. C.—Wants 400 lin. ft. of 70 or 80 lb. relaying rails with joints.

**Reservoir.**—See Water Supply System.

**Road.**—Buncombe County, Asheville, N. C.—Details under Construction News—Road and Street Construction.

**Road.**—Reeves County, Pecos, Tex.—Details under Construction News—Road and Street Construction.

**Road.**—State Road Dept., Tallahassee, Fla.—Details under Construction News—Road and Street Construction.

**Road.**—Sutton County, Sonora, Tex.—Will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—State Highway Comn., Montgomery, Ala.—Will build 5 roads. Details under Construction News—Road and Street Construction.

**Road.**—State Highway Comn., Raleigh, N. C.—Will build 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—Freestone County, Fairfield, Tex.—Will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—Bowie County, Boston, Tex.—Will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—State Highway Dept., Jefferson City, Mo.—Will build 12 roads. Details under

Construction News—Road and Street Construction.

**Road.**—State Highway Depot, Jefferson City, Mo.—Will build 19 roads. Details under Construction News—Road and Street Construction.

**Road.**—Sarasota County, Sarasota, Fla.—Will improve or build 9 roads. Details under Construction News—Road and Street Construction.

**Road.**—Callahan County, Baird, Tex.—Will improve 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—Jack County, Jacksboro, Tex.—Details under Construction News—Road and Street Construction.

**Road.**—Jim Hogg County, Hebbbronville, Tex.—Details under Construction News—Road and Street Construction.

**Road.**—El Paso County, El Paso, Tex.—Details under Construction News—Road and Street Construction.

**Saws.**—Sun Manufacturing Co., 722 S. Twenty-sixth St., Louisville, Ky.—Wants small circular saws.

**Screens.**—C. E. Shawver, Box 928, Deland, Fla.—Wants information on screens for dwellings.

**Seating.**—City Comsn. of Sanford, Fla., W. B. Williams, City Mgr.—Will receive bids Feb. 9 for chairs in city hall and auditorium.

**Seating.**—Edward E. Brown, Business Mgr., University of Missouri, Columbia, Mo.—Will receive bids about May 1 for steel or cast iron base students' chairs, library and desk swivel chairs, for the Lee Harry Tate Memorial Hall.

**Seating (Church).**—L. B. Jumper, Chmn., Bldg. Comn., First Baptist Church, Inman, S. C.—Wants seats for church.

**Sewer System.**—See Water and Sewer System.

**Sewers.**—See Water Works, etc.

**Sewer.**—Tenn., Kingsport—Details under Road and Street Construction.

**Sewer.**—See Paving, etc.

**Sewer Disposal Plant.**—See Water Works, etc.

**Sewer System.**—See Water Works, etc.

**Sewer System.**—City of Mission, Tex., J. M. Williams, Sec.—Will receive bids Jan. 22 for furnishing materials, equipment and labor for constructing approximately 50 miles of 6 to 15-in. sanitary sewer line and disposal plant, consisting of Imhoff tank and sprinkling filter; Ewing & Congdon, City Engrs.

**Shades.**—See Building Furnishings and Equipment.

**Shipping Boxes.**—Wiregrass Hatchery, R. F. D. No. 1, Hartford, Ala.—Wants prices on boxes for shipping baby chicks.

**Shovel.**—Reynolds Stone Co., 1711 E. Sixty-eighth St., Chicago, Ill.—Wants one crawler type shovel.

**Steel.**—Geo. M. Herbert, Jackson St., South Norfolk, Norfolk, Va.—Wants steel for church.

**Steel.**—See Building Materials.

**Steel (Structural and Ornamental).**—J. W. Adams, Builder, P. O. Box 225, Charlottesville, Va.—Wants bids on structural and ornamental steel in connection with remodeling and rebuilding New Jefferson Theater building.

**Steel Library Stacks and Shelving.**—See Building Furnishings and Equipment.

**Street Improvement.**—City of Carrollton, Ky.—Details under Construction News—Road and Street Construction.

**Street Paving.**—City of Newberry, S. C.



Details under Construction News—Road and Street Construction.

**Tank and Tower.**—See Water and Sewer Systems.

**Tank.**—Wilson-Hock Co. (Mchy. Dealers), City Point, Va.—Wants 3000 to 5000 gal. pressure tank, good for 150 lbs. pressure.

**Tile.**—See Building Materials.

**Twine (Jute).**—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Jan. 23 for 1500 lbs. jute twine, in ½ lb. balls; quotations f.o.b. point of shipment.

**Vacuum Cleaning Equipment.**—See Building Furnishings and Equipment.

**Valves.**—See Water Supply System.

**Water Supply System.**—City of West Jefferson, N. C., James Allen, Mayor.—Will receive bids Feb. 18 for following water works improvements: 2700 ft. of 2-in., 138 ft. of 6-in., 1400 ft. of 8-in. cast iron pipe; five 2-in., twenty-five 6-in., and seven 8-in. gate valves; 36 hydrants; 1300 lbs. cast iron specials; two 150,000-gal. concrete reservoirs and alternate bids on two 150,000-gal. steel reservoirs; The Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte; G. H. Bishop, Consult. Engrs.

**Water Works, etc.**—City of Paducah, Tex., P. E. Godfrey, Sec.—Will receive bids Feb. 16 in unit prices for extension of water works system; flow line for developing new water supply, storm sewers, sanitary sewer system, disposal plant and paving; Gantt-Baker Co., Engrs., 1116 W. Main St., Oklahoma City.

**Water and Sewer System.**—City of Siler City, N. C., J. S. Wrenn, Mayor.—Will receive bids Feb. 3 for construction of water and sewer system, including the following: 200,000-gal. reinforced concrete reservoir; 100,000-gal. steel tank and tower; sewage disposal plant; pump house and pumping equipment; 15,000 ft. of 6, 8 and 10-in. cast iron water pipe; 18,000 ft. of 6, 8, 10 and 12-in. sewer pipe; Spoon & Lewis, Engrs., 407 American Bank Bldg., Greensboro.

Bank of St. Petersburg, capital \$200,000, chartered with J. F. Alexander, Pres., 560 First Ave. N.; C. S. Hinds, Cashier.

Fla., Tampa—Hampton Investment Co., capital \$15,000, chartered with Hilton S. Hampton, Pres.-Treas., Citizens Bank Bldg.; I. M. Herring, Sec.

Ga., Atlanta—John H. Vaughters Co., capital \$50,000, incorporated by J. H. Vaughters, W. H. Mott, J. B. F. Prather, 848 Spring St.

Ga., Macon—Middle Georgia Agricultural Credit Corp., capital \$50,000, chartered by Chas. B. Lewis, T. R. Turner, both Macon; W. B. Baker, 75 Springdale Rd., Atlanta, and others.

Ky., Louisville—Dickson A. Given interested in establishing Morris Plan Bank, with \$175,000 capital; John L. Bushnell, representative of Industrial Finance Corp., 1 Pershing Square, New York, superintending organization.

Ky., Louisville—Standard Mortgage Co., plans increasing capital from \$50,000 to \$150,000.

La., Baton Rouge—Union Securities Co., Inc., capital \$15,000, chartered with Joe Gottlieb, Pres.; A. McB. Jackson, Sec.-Treas., 928 Florida St.

Md., Baltimore—Lakedale Building & Loan Assn., 1902 E. Baltimore St., capital \$100,000, incorporated by Benjamin Pierce, Alexander Smith, Louis Horwitz and others.

Md., Baltimore—Union Trust Co., John M. Dennis, Pres., Charles and Fayette Sts., purchased Liberty Bank, Dr. C. A. Smink, Pres., Liberty Heights and Gwynn Oak Aves., to be operated as branch bank.

Md., Baltimore—Maryland United Life Agency, Inc., 210 E. Redwood St., incorporated by Samuel Schwartz, Harry M. Caplan and Michael Miller.

Md., Baltimore—Pinehurst Building & Loan Assn., 805 Calvert Bldg., capital \$250,000, incorporated by Wm. M. Brown, Robert E. Kindred, Grover C. Morgan and others.

Md., Baltimore—Park Bank, Webster Bell, Pres., Liberty and Lexington Sts., plans increasing capital from \$300,000 to \$500,000.

Miss., Jackson—Maj. George L. Donald, Internal Revenue Collector, interested in organizing bank with \$100,000 capital.

Mo., Flat River—Citizens' Building & Loan Assn. of Flat River, capital \$200,000, incorporated by E. T. Haney, J. H. Clay, J. C. Parker and others.

Mo., Kansas City—Bankers' Investment Co., capital \$10,000, incorporated by T. I. Mains, 435 W. Fifty-eighth Terrace; H. R. Huhn, 4467 Penn St., Maude Mains.

Mo., Kansas City—Linda Investment Co., capital \$15,000, incorporated by W. W. Harrington, 3437 Paseo; Geo. R. Imbrie, 1300 Federal Reserve Bank Bldg., L. H. Carver and others.

Mo., St. Louis—Great Southern Investment Co., chartered by John C. McKee, Dwight E. Shultz, Ralph Mack, 761 Cherry St. and others; all Springfield.

Mo., St. Louis—Brotherhood Loan & Investment Assn., capital \$10,000, incorporated by Ben Caplan, 2605 Chouteau, Mitchell Stewart, 1476 Goodfellow, Dave Wilson and others.

Mo., St. Louis—St. Louis Joint Stock Land Bank, L. L. Beavers, Pres., will take over Southeast Missouri Joint Stock Land Bank of Cape Girardeau, retaining branch bank in Cape Girardeau, with C. A. Vandivort, Sec. Southeast Missouri Joint Stock Land Bank, as Mgr.; St. Louis Joint Stock Land Bank, will increase capital from \$600,000 to \$800,000.

N. C., Aberdeen—Page Trust Co. has pur-

chased Citizens Bank & Trust Co., Siler City; J. Q. Seawell, Cashier of Citizens Bank & Trust Co., will remain with bank under new management.

N. C., Gastonia—Citizens National Bank, A. G. Myers, Pres., increased capital from \$300,000 to \$500,000.

N. C., High Point—Farlow Insurance & Realty Co., capital \$100,000, incorporated with E. Wray Farlow, V.-P. and Treas.

N. C., Huntersville—Huntersville Mutual Building & Loan Assn., capital \$500,000, incorporated with C. L. Barnette, Pres.; H. J. McCorkle, Sec.-Treas.\*

N. C., Lenoir—Dimmette Insurance Co., capital \$50,000, chartered by L. E. Dimmette, and Fred B. Merrill.

N. C., Winston-Salem—Realty Bond Co., E. P. Yates, Pres., 301½ N. Liberty St., plans increasing capital from \$100,000 to \$500,000.

Okla., Guthrie—Farmers and Merchants Bank, organized with Judge Frank Dale, Pres., John Rhinehardt of First National Bank of Luther, Cashier.

Okla., Miami—Miami Security Co., capital \$40,000, incorporated by Frank Gaines, Fairland; R. B. Scott and Walter Gaines, both Miami.

Okla., Miami—Security Investment Co., capital \$100,000, incorporated by J. W. Roberts, Vera E. Thompson, 1425 N. W. Third Ave., and Royal L. Mann.

Okla., Sapulpa—Chief Title & Investment Co., capital \$25,000, incorporated by Fred Boone, Maude Virden, Nead Todd and others.

Okla., Tulsa—Security Building & Loan Assn., capital \$1,000,000, incorporated by James Bowne, C. H. Jamieson, E. M. Holmes, 1205 S. Owasso St.

S. C., Greenville—Peoples National Bank's surplus fund will be increased from \$300,000 to \$350,000; W. C. Beacham, Pres.

S. C., Lake City—Peoples Agricultural Corp. of Lake City, capital \$50,000, chartered with W. S. Lynch, Pres.; J. F. Rickenbaker, Treas.-Sec.

S. C., Saint George—Dorchester County Agricultural Credit Assn., capital \$10,000, incorporated by E. G. Hughes, R. H. Ciney, J. O. Horner.

Tenn., Chattanooga—Tennessee Building & Loan Assn. plans increasing capital from \$1,000,000 to \$2,000,000.

Tenn., Columbia—Phoenix National Bank plans increasing capital from \$125,000 to \$200,000.

Tenn., Knoxville—Knoxville Savings & Loan Bank, 207 W. Church St., E. H. Wilson, Sec.-Treas., increased capital from \$150,000 to \$200,000.

Tenn., Stanton—Stanton Bank, F. G. Rawlins, Pres., increased capital from \$15,000 to \$25,000.

Tex., Beaumont—Auto Securities Co. plans increasing capital from \$30,000 to \$50,000.

Tex., Cameron—Fidelity Abstract Co., Moore Bldg., capital \$10,000, chartered with A. N. Green, Pres.; Miss Annie Stallworth, Sec.-Mgr.

Tex., Dallas—Exchange National Bank increased capital from \$2,000,000 to \$4,000,000.

Tex., Dallas—Prudential Building & Loan Assn., W. F. Skillman, Pres., 108 Murphy St., increased capital from \$5,000,000 to \$10,000,000.

Tex., Houston—Oriental Securities Co., capital \$800,000, incorporated by J. S. Radford, J. T. Scott, James A. Baker, 1416 Main St., and others.

## Financial News

### New Financial Corporations

Ala., Birmingham—Birmingham Building & Loan Assn., capital \$1,500,000, organized with Ed. S. Moore, Pres., Jefferson County Bank Bldg., John G. Apsey, Sec. and Mgr.

Ala., Birmingham—Franklin-Patton Loan Co., Inc., capital \$25,000, organized with L. R. Patton, Pres.; Hugh Franklin, Jr., Sec.-Treas., 3925 Cliff Rd.

Fla., Cocoa—Brevard County Loan & Mortgage Co., capital \$300,000, chartered with Martin A. Metzger, Pres.; A. R. Trafford, Sec.

Fla., Daytona—American Finance & Mortgage Co., capital \$100,000, chartered with F. J. Weber, Pres.; W. J. Gardner, Sec.-Treas.

Fla., Jacksonville—Duval Mortgage & Guaranty Co. chartered with G. E. Brown, Pres.; Albion W. Knight, Sec., Graham Bldg.

Fla., Jacksonville—Springfield-Atlantic Bank, chartered with \$100,000 capital; Edward W. Lane, President of Atlantic National Bank, interested.

Fla., Ocala—Munroe & Chambliss National Bank, DeWitt Griffith, Cashier, has increased capital \$50,000.

Fla., St. Petersburg—Alexander National

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Plano—Farmers National Bank, capital \$60,000, chartered with R. A. Ravis, Pres.; C. W. Fouché, Cashier; conversion of Farmers State Bank.

Tex., Taylor—D. D. Fairchild is organizing Financing Corp. with \$50,000 capital.

Tex., Wichita Falls—Guaranty State Building & Loan Assn., capital \$100,000, incorporated by C. L. Francis, R. O. Harvey, W. C. Hamilton and others.

Va., Norfolk—Finance Corp. of Norfolk plans increasing capital from \$7,000,000 to \$12,000,000.

Va., Richmond—Virginia Bond & Mortgage Co., capital \$300,000, organized with J. Lee Davis, Pres.; T. K. Vertner, Sec., 1805 Grove Ave.

W. Va., Charleston—Kanawha Valley Bank, John Q. Dickinson, Pres., plans increasing capital from \$500,000 to \$1,000,000.

W. Va., Charleston—West Virginia Assn. of Finance & Loan Companies organized by finance companies of Charleston, Huntington, Bluefield, Parkersburg and Wheeling with O. J. Newlong, Pres.; I. B. Bush, Sec., Pearson Bldg., both Charleston.

W. Va., Wheeling—Homeseekers' Fire Insurance Co., capital \$100,000, organized with Otto Schenk, Pres., Leatherwood St.; Joseph H. Ross, Jr., Sec.-Treas.

### New Securities

Fla., Bartow—Road and Bridge—Polk County Commrs., J. D. Raulerson, Clk., will receive bids Jan. 20 for \$210,000, 6%, \$1000 denom. Special Road and Bridge Dist. No. 9 bonds.

Fla., Bradenton—Road and Bridge—Manatee County Commrs. will call election Feb. 23 on \$1,500,000 bonds. Lately noted to vote Jan. 14.

Fla., Clearwater—School—R. S. Blanton, Sec. Board of Public Instruction, sold \$15,000 5½% Pinellas County Special Tax School Dist. No. 1 bonds to Prudden & Co., Toledo, at premium of \$662.\*

Fla., Fort Myers—Improvement—City, F. E. Smith, Clk., sold \$226,000 5½% Series A bonds to J. G. White & Co., New York City, at premium of \$9243.\*

Fla., Jacksonville—City Comm., M. B. Herlong, Chmn., will receive bids Jan. 20 for \$50,000 5% \$1000 denom. bonds.

Fla., Miami—Municipal Improvement—City, F. H. Wharton, Mgr., plans \$1,500,000 bond issue, including \$750,000 street paving \$660,000 sewers and \$90,000 sidewalks.

Fla., Miami—Municipal Improvement—City, F. H. Wharton, Mgr., will call election Jan. 20 on \$1,500,000 bonds, including \$75,000 street railway extension, \$50,000 incinerators, \$75,000 public market, \$100,000 city's share of sanitary sewers, \$50,000 municipal hospital, \$400,000 wharves and docks, \$400,000 parks, \$250,000 water works.\*

Fla., Palmetto—Street Improvement—City will receive bids Jan. 27 for \$20,000 to \$500,000 bonds or certificates. Address City Clk.

Fla., Palmetto—Water Works—City will vote Feb. 9 on \$50,000 bonds. Address City Clk.

Fla., Plant City—Municipal Improvement—City sold \$30,000 8% certificates to Wright, Wardlow & Co., Orlando.\*

Fla., South Jacksonville—Municipal Improvement—City, E. Jackson Butler, Clk., may call election March 4 on \$375,000 bonds, including \$56,000 electric light extension and white way, \$72,000, sewerage system extension, \$149,000 street paving and park development, \$88,000 fire protection and water-works extension, \$10,000 fire truck, and additional fire-fighting equipment, \$25,000 municipal dock development.\*

Fla., St. Petersburg—School—City contemplates voting on \$1,150,000 bonds. Address School Board.

Fla., Tampa—Hospital—City Comm., will call election Mar. 17 on \$1,000,000 bonds; W. L. Lowry, Commrs. 415 Citrus Exchange Bldg.\*

Fla., Vero—Road—City contemplates \$250,000 bond issue; E. J. Sellard, Sec. Chamber of Commerce.

Fla., Wellborn—School—City voted \$10,000 School Dist. bonds. Address Board of Public Instruction.

Ga., Augusta—Street Improvement—City will receive bids Jan. 23 for \$60,000 4½% bonds. Address City Clk.

Ky., Whitesburg—Road—Letcher County Fiscal Court, will call election March 21 on \$200,000 bonds. Address County Commrs.

Ky., Morganfield—Water Works—City sold \$120,000 5% bonds to Caldwell & Co., Nashville, at par.

La., Baton Rouge—Park—City will vote in Feb. on \$200,000 bonds. Address City Clk.

La., Greensburg—Road—St. Helena Parish Police Jury, W. P. Mathews, Pres. sold \$30,000 6% bonds to Security Bank & Trust Co., Amite, at par and accrued interest.\*

La., Jennings—Road—Jefferson Davis Parish voted \$75,000 bonds. Address Parish Police Jury.

La., Jonesville—Water Works, Electric Light System—Town will vote Jan. 27 on \$40,000 bonds. Address Town Clk.

La., Lafayette—School—Lafayette Parish School Board will call election Feb. 17 on \$350,000 bonds.

La., Mansura—Water Works, Electric Light Plant—Town, A. J. Escude, Mayor, will receive bids about Feb. 15 for \$55,000 6% bonds.\*

La., New Orleans—Paving—City, Richard M. Murphy, Commr. of Public Finance, plans selling \$1,000,000 certificates.

La., Port Allen—Levee Indebtedness—West Baton Rouge Parish Police Jury sold \$246,000 6% \$1000 denom. Atchafalaya Basin Levee Dist. bonds to Canal Commercial Trust & Savings Bank of New Orleans.

Md., Cumberland—School—Allegany County Commrs., Thos. P. Richards, Clk., rejected \$500,000 4½% bond issue.\*

Md., Towson—Road, School—Baltimore County Commrs., John R. Haut, Ch. Clk., sold \$500,000 school and \$750,000 road and school bonds to Alexander Brown & Sons, Baltimore and Calvert Sts., Baltimore, at 103.913.\*

Md., Upper Marlboro—School and School Sites—Prince Georges County Board of Education, J. Chew Sheriff, Pres., Landover, Md., sold \$335,000 5% bonds to Robert Garrett & Sons, Redwood and South Sts., Baltimore, at \$105.589 and accrued interest.\*

Miss., Bay Springs—School—Jasper County Antioch Consolidated School Dist., voted bonds. Address Pres. School Board.

Miss., Center—School—Town voted bonds. Address School Board.

Miss., Cockrum—School—De Soto County plans bond issue. Address School Board.

Miss., De Kalb—Road—Kemper County Commrs., sold \$50,000 Beat No. 1 bonds, as follows: \$10,000 to Merchants & Farmers Bank, Scooba, and \$40,000 to Central State Bank, Memphis, Tenn.

Miss., Grenada—Road—Grenada County

Commrs., will call election Jan. 31 on \$40,000 bonds.

Miss., Kosciusko—Road and Bridge—Attala County sold \$200,000 Supervisors Road Dist. No. 1, bonds to Marine Bank & Trust Co., Whitney-Central Banks, both New Orleans and Caldwell & Co., New Orleans and Nashville.

Miss., Magnolia—School—Pike County sold \$25,000 5% bonds to Magnolia Bank of Magnolia at par.\*

Miss., Meridian—Road—Lauderdale County Commrs. sold \$400,000 5% bonds to Meridian Finance Corp. at par and accrued interest.\*

N. C., Asheboro—Road and Bridge—Randolph County Commrs., John F. White, Chmn., will receive bids Feb. 2 for \$500,000 4¾% \$1000 denom. bonds.

N. C., Beaufort—Street Improvement—Town, M. A. Hill, Clk., will receive bids Feb. 7 for \$75,000 6% \$1000 denom. bonds; W. L. Stancil, Treas.

N. C., Elm City—Street Improvement, Water Works—Town, J. M. Bolen, Clk., will receive bids Jan. 29 for \$25,000 street improvement and \$5000 water-works extension bonds, \$1000 denom.

N. C., Goldsboro—Public Improvement—City, J. G. Spence, Clk., will receive bids Feb. 2 for \$150,000 6% \$1000 denom. bonds.

N. C., Greensboro—Park—City, P. C. Painter, Mgr., will vote in Spring on bonds.

N. C., Morven—Electric Light—Town, John A. Liles, Clk., will receive bids Jan. 22 for \$30,000, bonds.

N. C., Roseboro—Water-Sewer—Town, E. C. Robinson, Mayor, voted \$85,000 bonds.\*

N. C., Wilson—Road—Wilson County Commrs. contemplate calling election on \$1,250,000 bonds.

Okla., Kingfisher—Road—Kingfisher County Commrs. will call election Feb. 24 on \$700,000 bonds.

Okla., McAlester—Water Works Improvement, Fire Department Enlargement—City will purchase \$85,000 bonds. Address City Clk.\*

Okla., Pauls Valley—Road—Garvin County voted \$720,000 bonds. Address County Commissioners.

Okla., Pittsburg—Sewer—Motor Fire Truck—City voted \$29,500 bonds. Address City Clk.

Okla., Sayre—School—School Board plans calling election on \$56,000 bonds.

Okla., Stilwell—Bridge—Adair County, Baron and Stillwell Townships, voted \$40,000 bonds. Address County Commrs.\*

Okla., Wewoka—Sewer—City, Guy Cutlip, Mayor, will call election Jan. 21 on \$50,000 bonds.

S. C., Chesnee—Water Works—Town voted \$50,000 bonds; will sell bonds soon. Address Town Clk.

Tenn., Chattanooga—Improvement—City contemplates \$500,000 bond issue. Address Commr. Base.

Tenn., Copper Hill—City contemplates voting on \$100,000 bonds. Address City Clk.

Tenn., Dyersburg—Road—Dyer County Quarterly Court contemplates \$150,000 bond issue.

Tenn., Johnson City—Street Paving—City sold \$53,200 6% \$100 and \$1000 denom. bonds to Well, Roth & Irving Co., Cincinnati at 103.

Tenn., Kingsport—Improvement—City will receive bids Feb. 3 for \$72,500 6% \$500 and \$1000 denom. bonds; F. L. Cloud, City Mgr.

Tenn., Knoxville—School—City will prob-



ably vote in April or May on bonds. Address Pres. School Board.

Tex., Amarillo — Water Works — City, Eugene S. Blasdel, Mayor, will call election April 7 on \$1,750,000 bonds.

Tex., Archer City — School — City sold \$75,000 Independent School bonds to Brown-Crummer Co., Wichita, Kan.\*

Tex., Ballinger — School — City sold \$100,000 5% Independent School Dist. bonds to Commerce Trust Co., of Kansas City at premium of \$390.\*

Tex., Beaumont — Street Improvement, Viaduct, Wharf and Dock Improvements — City, Ollie J. Boyd, City Mgr., will call election Feb. 28 on \$675,000 bonds, including \$150,000 street improvement, \$300,000, city's share for viaduct, \$225,000 wharf and dock improvement.

Tex., Brady — Water Works Extension, Street Paving — City sold \$175,000 bonds to J. E. Jarrett & Co., San Antonio.

Tex., Brady — Water Works — City will vote Feb. 3 on \$100,000 bonds. Address The Mayor.

Tex., Breckenridge — Courthouse — Stephens County, E. F. Ritchey, County Judge, reported voted \$250,000 bonds.\*

Tex., Breckenridge — Road — Stephens County Comms. Court sold \$1,000,000 bonds to H. C. Burt, Houston.

Tex., Comanche — Road — Comanche County sold \$50,000 De Leon Road Dist. bonds to J. T. Bowman, Austin.

Tex., Crowell — Sewer — City, J. E. Kimsey, Sec. will call election Jan. 27 on \$50,000 bonds; C. T. Schlager, Mayor.

Tex., Cuero — Road — De Witt County sold \$15,000 bonds to August Burow, Sr., Nordheim.

Tex., Fabens — School — El Paso County Court sold \$50,000 serial bonds to First National Bank of El Paso for accrued interest and premium of \$1765.

Tex., Lubbock — Municipal Improvement — City, F. R. Friend, Mayor, will receive bids Feb. 10 for \$225,000 5% bonds, including \$125,000 street improvement, \$75,000 water works, \$25,000 sanitary sewers.\*

Tex., Muleshoe — Courthouse — Bailey Coun-

ty, R. L. Klump, Judge, sold \$60,000 bonds to Geo. L. Simpson & Co., Dallas, at premium of \$700.\*

Tex., Palestine — Road — Anderson County Comms., W. C. Quick, County Judge, will receive bids Jan. 27 for \$500,000, 5%, \$1000 denom. bonds.\*

Tex., Stamford — Street Paving, Municipal Auditorium — City, Chas. W. Zug, Jr., City Mgr., will receive bids Jan. 30 for \$70,000 street paving, and \$35,000 municipal auditorium bonds, 5% or 5½%.\*

Tex., Yoakum — School Auditorium — City voted \$8000 bonds. Address City Clk.\*

Tex., Waco — Street Paving — City Comm., contemplates about \$250,000 bond issue.

Tex., Weslaco — Sewer — City, R. E. Snodgrass, Mayor, will call election Feb. 9 on \$25,000 bonds.

Va., Falls Church — School — Town voted \$75,000 bonds; S. A. Rohwer, Clk., School Board.\*

Va., Norfolk — Revenue — City sold \$1,500,000 notes to F. S. Meseley & Co., and First National Bank, both New York.

W. Va., Moundsville — Road — Marshall County, Washington Dist., will vote Feb. 10 on \$100,000 bonds; A. Purdy, Engr.\*

## Financial Notes

Central Bank & Trust Co., Asheville, N. C., has established insurance department, with J. W. Wheeler in charge.

Florida Title Insurance Co. of Miami, Fla., has opened branch bank in Florida Arcade, St. Petersburg, with R. H. Logan, Dist. Mgr.

Julien H. Hill, president of the State and City Bank and Trust Company, Richmond, Va., was unanimously re-elected second vice-president of the Richmond Chamber of Commerce at the recent annual meeting, all the officers being re-elected for another term. Mr. Hill has been prominent in civic affairs for a number of years and is widely known throughout the South and East.

Western National Bank, C. H. Rieman, Pres., 14 N. Eutaw St., Baltimore, Md., will open savings department.

## Has Accepted New Position.

Col. C. H. Crawford has recently become associated with Dwight P. Robinson & Co., Inc., engineers and constructors, New York City. Colonel Crawford served with the United States Engineers during the war, and subsequently was with the Nashville, Chattanooga, and St. Louis Railway. From 1919 to the present he was general representative of the Baldwin Locomotive Works in Brazil, with headquarters at Rio de Janeiro.

## Navy Airplanes to Be Sold.

An important sale of navy surplus at auction is to take place at the Naval Operating Base, Hampton Roads, Va., at 10 o'clock A. M. Friday, January 30, according to an official announcement which appears elsewhere in this issue. The sale includes motorcycles and sidecars, hardware, stoves and ranges, electrical material, hand and machine tools, household and ships' galley furnishings, canteen and commissary stores, bolts, nuts, screws, washers, boat and ship fittings, pipe fittings, blocks and parts, metals and much other goods and material. Further particulars will be found in the advertisement.

## Big Tilting Mixers on a Big Job.

The Exchequer dam and powerhouse, now being built for the Merced Irrigation District in California, is a big project of general interest and under the direction of Bent Bros., Inc., the work, which is well under way, should be completed well within time limits. This dam will be 326 feet high, 950 feet wide at the highest point and 221 feet wide at the base. There will be a storage capacity of 280,000 acre-feet, the spillway discharge will be 70,000 feet per second and there will be two power units, each capable of developing 16,750 horsepower. In all the job will require 380,000 cubic yards of concrete, all of which will be poured by a battery of three big 56-S Smith tilting mixers, each with two yards mixed batch capacity and made by the T. L. Smith Company of Milwaukee, Wis.

## Ice and Refrigerating Plants.

Since their last report on November 26 last the York Manufacturing Co. of York, Pa., have made 124 sales and installations of their ice-making and refrigerating machinery in different parts of the country, including 40 in the South at various towns and cities as follows: Southern Pines, N. C.; New Orleans, La.; Houston, Tex.; Enfield, N. C.; Sherman, Tex.; Mission, Tex.; Bristol, Tenn.; Shaw, Miss.; Plymouth, Fla.; Fort Smith, Ark.; Austin, Tex.; Monroe City, Mo.; St. Petersburg, Fla.; Liberty, Mo.; Charleston, W. Va.; Baltimore, Md.; Stamford, Tex.; Pecos, Tex.; Little Rock, Ark.; Miami, Fla.; Orlando, Fla.; Scottsboro, Ala.; St. Louis, Mo.; Port Lavaca, Tex.; Savannah, Ga.; Clearwater, Fla.; Benton, Ark.; Shreveport, La.; Huntsville, Ala.; Crescent Springs, Ky.; Cedartown, Ga.; Pine Bluff, Ark.; Newport, Tenn. and Macon, Ga. At Baltimore, Houston, Orlando, St. Louis and St. Petersburg two or more installations were made.

## Poles Made of Copper Bearing Steel.

The Truscon Steel Company, manufacturers of steel products, Youngstown, Ohio, who several months ago announced that they had added a steel pole to their big line of building products, have just announced that in the future Truscon steel poles will be made of copper-bearing steel, which, it is claimed, will not rust, so that the new material does away with the need for costly galvanizing heretofore required on steel poles. Furthermore, it is stated that it materially affects the high maintenance costs of painting, and because of

# INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

## Southern Office Opened.

The Hoosier Cut Stone Company, Inc., of Bedford, Ind., have lately opened their Southern office at 405 Bona Allen Building, Atlanta, Ga., and Alfred M. Wright will be the Southern representative of the company.

## Direct Sales Office Opened.

The Sangamo Electric Co. of Springfield, Ill., has opened a direct sales agency in Boston, Mass., the new office being located at 19 Pearl street under the charge of Stafford J. King, who for the last twelve years has been the company's sales engineer situated in New England territory. He will be assisted by W. H. Carpenter and R. D. Savage, who are at present also in that territory. Leonard G. Hunt, for the last three years a district sales engineer, with headquarters at the factory, has been transferred to Boston to be associated with Mr. King. A complete stock of meters and accessories will be maintained there.

## Ice and Storage Plant to Be Sold.

Announcement is made elsewhere in this issue by Shirley C. Bott, Trustee, Key West, Fla., that offers will be received until February 17 for the purchase of the Consumers' Ice & Cold Storage Company's plant in that city, and which includes waterfront property, buildings, machinery, tools, trucks, wagons, etc. Further particulars will be found in the advertisement.

## Distributors Appointed.

The Universal Crane Co. of Elyria, Ohio, has appointed distributors of its products as follows: J. W. Bartholow Co., 1221 South Lamar street, Dallas, Tex., for the state of Texas; Robert G. Wells, Builders' Exchange Building, Memphis, Tenn., for Arkansas, Mississippi and the western part of Tennessee; The Clyde Co., 303 Magazine street, New Orleans, La., for Louisiana and the southern part of Mississippi.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

these considerations engineers dealing with line construction and maintenance will be particularly interested in this revolutionary step taken by the Truscon organization. Public service and power transmission companies will also find a solution to some of their problems in the use of this new copper-bearing steel, and the Truscon company acknowledges its indebtedness to the American Sheet and Tinplate Co. and to D. M. Buck, the chief metallurgical engineer thereof, for much valuable information concerning copper steel and its endurance under exposure tests conducted over a period of more than five years and which are being continued. Steel having a copper content of 25 per cent is reported still in perfect condition, though slightly less in weight than at first; untreated sheets completely failed in a year and four months. These tests were made with sheets about 1-32 of an inch in thickness, viz. .22 gauge. Other tests reported elsewhere showed no failures with sheets containing 15 per cent or more of copper, 272 sheets being tested. It is stated that the new poles are not only weather-resistant but that they successfully withstand all stresses to which poles are subjected.

#### Change of Name of Important Plant.

Harnischfeger Corporation is the new title of the former Pawling & Harnischfeger Co., Milwaukee, Wis., the corporate name having been recently changed. The business of these manufacturers of electric cranes and hoists, machine tools, excavating machinery, etc., began 40 years ago when Henry Harnischfeger and Alonzo Pawling, as partners, started in a one-story building of 26 by 50 feet dimensions in Milwaukee. Their shop equipment was very meager, but among the output of the factory in its early days were machines for file-cutting, grain-conveying, carving, brick-making and knitting, besides bolt clippers, the Nordberg poppet valve governor and various other products. Two other large and prominent enterprises, it is stated, grew out of the production of the shop, these being the Chain Belt Company and the Nordberg Manufacturing Company, Bruno Nordberg having designed the valve governor. Later, the Shaw Electric Crane Company, of which Mr. Harnischfeger was president, grew out of the need of the Edward P. Allis Company (now Allis-Chalmers Mfg. Co.), for a crane, which A. J. Shaw developed as an electric traveling crane with three motors, the first of its type. Pawling & Harnischfeger then became permanently associated with the crane building industry. Afterwards Mr. Shaw withdrew and the other partners extended their line of products, including horizontal boring and drilling machines, centering machines and radial wall drills. The partnership was incorporated in 1910, and in 1911 Mr. Pawling retired, his interest being purchased by his partner. Gasoline-driven excavators were first built by the company in 1913 and 25 or 30 of them are turned out every month. A big extension to the main shops, which had previously grown year by year to keep up with the business, was made in 1923 and in 1924 the Hercules Steel Casting plant was bought. Thus the life of the company has been one of steady progress and success.

#### Change of Location.

The Burnerator Company, formerly at 151 N. Dearborn St., Chicago, manufacturing garbage and refuse incinerators, have now established their main office at 53 W. Jackson boulevard, Chicago. This change marks an expansion in their personnel, particularly the engineering force required to plan for the special incinerator problems of architects and contractors.

#### Change of Business Connection.

Lawrence Richardson has joined Dwight P. Robinson & Co., Inc., engineers and constructors of New York city. Previous to joining this organization he was with the Whiting Corporation in Chicago.

#### Change of Name.

Hammond Iron Company is the new name adopted by the former Hammond-Byrd Iron Co., manufacturers of cast-iron water, gas and sanitary pipe, whose offices are at 1707-1718 American Building, Birmingham, Ala.

#### General Director of Sales.

William H. Utz, vice-president and formerly European director of Jenkins Brothers, Limited, with headquarters in London, England, has been made director of sales of Jenkins Brothers, valve manufacturers, 80 White street, New York city. Mr. Utz assumed the duties of his new position in this country on January 1. He will have general charge of the selling activities of the company.

#### Textile Mills For Sale.

Elsewhere in this issue formal announcement is made to the effect that the plant and machinery of the Bradford Mills at Philadelphia, Pa., are for sale, consisting of complete equipment for scouring, carding, combing and spinning for both Bradford and French systems. There are about 300 looms, besides other machinery. Further particulars will be found in the advertisement.

#### District Managers Appointed.

The Traylor Engineering & Manufacturing Co. of Allentown, Pa., has made changes in its sales organization as follows: Geo. W. Walters is appointed district manager for the Northwestern sales territory of the company, with district office at 815 Alaska Building, Seattle, Wash., and W. H. Agens, formerly district manager at Seattle, has been appointed district manager of the Southwestern sales territory, with headquarters in the I. W. Hellman Building, Los Angeles, Cal.

#### New Engineering Organization.

A new engineering firm, Klyce & Harrub, has been formed by the association of B. H. Klyce, C. N. Harrub and William E. Wilbur, with offices at 506, 7, 8 and 9 Fourth and First National Bank Building, Nashville, Tenn. The practice of engineering will be continued as heretofore carried on by Mr. Klyce, covering municipal, highway, structural and drainage improvements. Mr. Harrub will give special attention to sewer systems, sewage disposal and public water supplies, including filtration, and Mr. Wilbur will specialize as to structures of reinforced concrete and steel.

#### President Elected.

George E. Doke, engineer of materials and equipment tests of the New York Central Railroad, New York City, has resigned as of February 1 and has been elected president of the Associated Manufacturers of Chilled Car Wheels, with headquarters at Chicago, to succeed George W. Lyndon, who died there October 7. Mr. Doke, who is a native of Tecumseh, Mich., is 47 years of age and has been connected with the New York Central System during practically his entire railroad life. For several years he has been a committee member of the American Society for Testing Materials, and the Mechanical Division of the American Railway Association. He is also a member of the Cleveland Engineering Society and the American Society of Mechanical Engineers.

#### Official Changes.

Announcement has been made by Lockwood, Greene & Co., engineers, 24 Federal street, Boston, that Hartley Rowe, Walter W. Cook and William H. Rose have been appointed directors of that organization as of January 1. Mr. Rowe will continue as manager of the Boston office and Mr. Cook continues as manager of the company's architectural department, also in Boston. Mr. Rose becomes a vice-president of the company, with headquarters in Chicago.

#### Electric Contract to Increase Capacity.

The Westinghouse Electric & Manufacturing Company has received a contract from the Crescent Portland Cement Company for power-plant equipment to modernize the present plant at Crescentvale, Pa. Increased production has necessitated additional power facilities. The equipment consists of two 3000-kw., 2200-volt, 3-phase, 60-cycle turbine generator units equipped with surface condensers and auxiliaries. In addition, the contract calls for a switchboard substation and six 500 kv-a transformers.

#### Sewing Machine Speed Control.

An important advance in factory equipment for the needle-work trades is the Maimin speed-control individual motor drive for sewing-machine tables, which is manufactured by the H. Maimin Company, Inc., of New York, N. Y. The motor is controlled by pressure of the foot on a treadle under the table and the machine may be made to sew a stitch at a time or to jump, as desired, into high or any intermediate speed. Releasing the pressure stops the machine instantly. General Electric motors of ¼ horsepower are used and are supplied for any type of voltage.

#### Economy and Efficiency of Flowmeters.

The Dolbeer Carson Lumber Co. of Eureka, Cal., now generates all steam required by it with five boilers instead of six, excepting under extreme load conditions. Steady production began at this mill in July last, six return tubular boilers having been installed, and it was predicted by mill and boiler men in that locality that there would not be enough steam to operate the mill. But, to insure balanced operation of all six boilers, six General Electric Co. indicating, recording and registering flowmeters were installed and in consequence deficiencies in steam production were eliminated and five of the boilers now carry the load. When one of the fires is given a charge of unusually wet sawdust the meter gives the alarm before the condition of the fire is noticed. Unusual demands for additional steam are also indicated by the flowmeters whenever they occur. A record of pounds of steam generated is kept and is balanced against kilowatt hours generated and the output of the mill.

#### Complete Restoration After a Fire.

The Cement-Gun Construction Co., engineers and builders, 537 South Dearborn street, Chicago, salvaged successfully a reinforced concrete building that had been damaged by fire at Evansville, Ind., the work being done at relatively small expense, and in much less time than complete reconstruction would have required, the building was restored to its original strength. It was the warehouse of the Sterling Products Co., which was seriously burned last August. The damage included spalling of concrete supporting columns down to the reinforcing material and column capitals and drop plates were badly disintegrated. Large cracks also occurred in the roof slab. All loose and disintegrated concrete was removed and replaced with new concrete. (Continued on page 118.)



# Character

## The Best of all Collateral

The late J. P. Morgan said:

*"I have known a man to come into my office, and I have given him a check for a million dollars when I knew they had not a cent in the world. The first thing is Character. Before money or anything else. That is the rule of business."*

*Character* in Business is reputation for integrity, sincerity and genuine business ability. It does not spring into being over night. It is the creature *only* of slow development.

When an enterprise takes the Banker into its confidence, and makes a practise of submitting a periodical Detailed Audit Report, *it builds Character.*

The Detailed Audit Report, above all other factors, serves to establish a relationship of mutual understanding and trust between Banker and Business Man. It is the *one* instrument that can give the Banker a complete picture of a business in all essential details. It is the *only* instrument that can satisfy him that his client does business on facts, based on dependable figures.

Under present conditions, when money is comparatively easy to borrow, the Detailed Audit Report not only builds *Character*, which is *the best of all Collateral*, but *checks* against over-borrowing and *protects* against the dangers of lapsed maturities.

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crete on the columns was first removed, none of it being less than the depth of 2 inches. Then Guncrete was shot against the columns until they were restored to their original size and the capitals and drop plates were similarly built up. Floor slabs were similarly treated until they were also built up to their former dimensions. After this test loads proved that the former strength of the building had been fully restored. The M. J. Hoffman Construction Co. of Evansville were the general contractors, the Guncrete work being done by the Cement-Gun Construction Co.

#### Purchase of Rights For Machines.

The Kent Machine Co., Kent, Ohio, has purchased from the National Acme Co., Cleveland, Ohio, all drawings, patterns and tools for manufacturing (and also all rights to manufacture under patents) the complete line of "Nameco" auxiliary machinery which has been made by the National Acme Co. for several years. These machines were developed by that company for secondary operations in their own screw products plants and an outside demand for them resulted, so that they were put on the market. They include bar-pointing machines, stud threaders, small tool grinders, single-spindle drillers, screw slotters, bolt threaders, etc. The Kent Machine Co. will continue the manufacture of the full line.

#### Removal of Office.

The Pawling & Harnischfeger Company of Milwaukee, Wis., has announced the removal of its Atlanta, Ga., office to Jacksonville, Fla., at 303 Peninsular Casualty Building. W. J. Dugan, southern sales manager, will be in charge of the office and F. W. Truex, formerly sales engineer in Atlanta, will transfer his headquarters to Jacksonville. It is further stated that G. L. Lillard and H. A. Wolcott have been added to the staff of sales engineers working out of the new office.

## Trade Literature

#### Films About Electricity.

A 47-page booklet, "Motion Pictures," recently issued by the General Electric Company, describes the 22 motion picture films made and distributed by that company. These films are loaned without charge for exhibition in the United States in the interest of commercial development, education and other purposes. They tell the story of the growth and application of electricity in different industries, etc.

#### Report on Steam Purifiers.

"Tracy Steam Purifiers Used by the Central Illinois Light Co." is the title of a pamphlet presenting the result of a personal investigation made by a staff engineer of the A. C. Nielsen Company of Chicago, which organization investigates, analyzes and reports on the actual performance and use of methods, machinery and materials. The booklet, which bears the name of the Andrews-Bradshaw Company, 530 Fourth Ave., Pittsburgh, Pa., is complete and there are two illustrations pertinent to the reading matter.

#### Calendars, 1925.

Calendars for 1925 recently received by the MANUFACTURERS RECORD include a wall calendar from the Belcher Asphalt Paving Company, Inc., of Miami, Fla., this having a large map of the state in colors with smaller maps of Cuba, Mexico, Porto Rico and the Republic of Panama; hanger calendar from the F. E. Myers & Bro. Co. of Ashland, Ohio, with pictures of all the different kinds of pumps that they manufacture; hanger calendar from Moore & Co., Inc., bookbinders, Baltimore, Md., with three months to a page and large figures.

#### Actinic Glass and Its Uses.

The Pennsylvania Wire Glass Co., Pennsylvania Building, Philadelphia, with works at Dunbar, Pa., has issued a new catalog about its Actinic glass, which, it is claimed, is particularly adapted for use in roofs, skylights, side walls, canopies, marquises, louvres, area coverings, transoms, windows, train sheds, street cars, railroad cars, school room windows and windshields. It is stated that Actinic glass is a light, amber-tinted glass that excludes about 85 per cent of the ultra-violet (glare) rays of the sun, which are the principal causes of eye fatigue, the deterioration of rubber and the fading of paper and fabrics, such as silk, cotton, etc., and that by the use of this glass these injurious effects are practically eliminated. This glass is made either with or without wire. The catalog is illustrated, showing the glass in its usual color.

#### Improvement of a City Water Plant.

How the city of Des Moines, Iowa, improved its pumping plant up to date is described in a leaflet issued by the De Laval Steam Turbine Co. of Trenton, N. J. Water is drawn from galleries driven through a deposit of glacial sand, the galleries being parallel to the Raccoon River, but from 50 to 300 yards away from the stream, so that the sand acts as a natural filter. But, to remove all danger of contamination, the water is also chlorinated. The pumps, which are of the geared turbine driven centrifugal type, deliver directly into the city mains against constant pressures, which can be increased for fire purposes. The average daily water consumption is 12,000,000 gallons, with a minimum of 9,000,000 gallons and a maximum of 16,000,000 gallons, supplying 26,000 services, 99 per cent of which have meters.

## Lake Worth Awards Paving Contract.

Lake Worth, Fla.—At an adjourned meeting of the town commission here contract was awarded to Robert G. Lassiter & Co. of Raleigh, N. C., and West Palm Beach to pave approximately 10 miles of streets and lay 20 miles of gutter. The project involves cutting through and paving all streets north and south and east and west, from Lake avenue to 23d street, all streets to be 30 feet wide, surfaced with natural rock asphalt.

Estimates are now being prepared for a section of paving south of Lake avenue, and contract is expected to be awarded soon. It is then planned to prepare estimates on street work to be done in North Lake Worth, beginning at 24th street and extending through the corporate limits. George Kingsley is city engineer.

## Halifax Cotton Mills to Enlarge.

South Boston, Va.—It is announced that the Halifax Cotton Mills, Inc., plan to enlarge their plant here by one-third and install a new bleachery. Fifteen new dwellings will be erected at once to accommodate additional operatives.

The mill is at present equipped with more than 8000 spindles and about 75 looms for the production of damask. N. B. McCanlass is president.

The Henry Construction Co., Greenville, S. C., submitted lowest bid at \$120,237 for paving 3.79 miles of the Greenville-Travelers Rest road, and at \$131,186 for paving 4.754 miles of the Greenville-Mauldin road, both in Greenville county, South Carolina. Plain concrete will be used on both projects.

## Garvin County Votes \$720,000 Bonds.

Pauls Valley, Okla.—A road bond issue of \$720,000 has been voted in Garvin county for the construction of a hard-surfaced road from the northern line of the county southward through Pauls Valley and Wynnewood to the Murray county road. With the completion of the Garvin county project, there will be a hard-surfaced road from Oklahoma City to Idabel, with the exception of eleven miles in McClain county.

## South Carolina Contracts Awarded.

Columbia, S. C.—Road contracts recently awarded by the State Highway Commission include the following: Sand-clay surfacing about 14 miles of the Columbia-Savannah highway in Orangeburg county, G. Frank, Bamberg, S. C., contractor at \$52,225; sand-clay surface on Charleston-Augusta highway in city limits of Bamberg, J. F. Cleckley of Cope, S. C., contractor at \$8038, and for surfacing about eight miles of Nichols-Lake View highway in Dillon and Marion counties, W. F. Boyle Co., Inc., Sumter, S. C., was awarded contract at \$46,099.

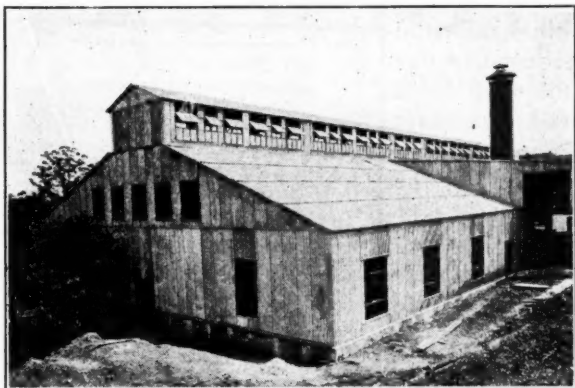
## To Vote on \$1,750,000 Bonds for Water Supply.

According to Mayor Eugene S. Blasdel of Amarillo, Texas, the election on a bond issue of \$1,750,000 for a water supply and distribution system for Amarillo will be held on April 7, the date of the municipal election.

Adams County Board of Supervisors, Natchez, Miss., will receive bids until February 3, for the construction of a girder bridge over Dry Bayou on the Washington road.



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for every industrial purpose

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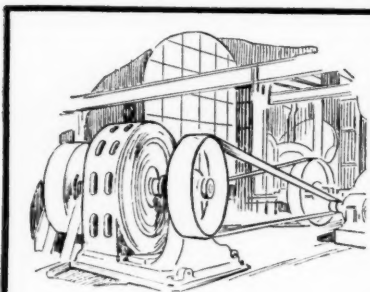
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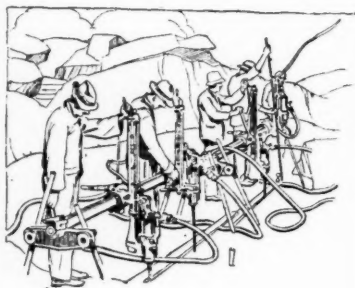
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# Good rubber—an industrial necessity

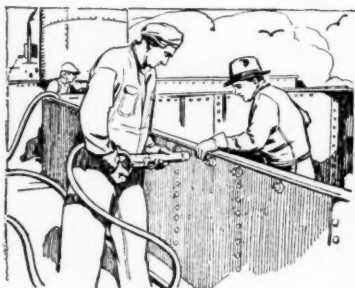


The steel which, rolled into rails and fabricated into hulls, transports our manufactures; the stone and brick which house our industries; the cast iron and brass of our machinery—these have fired men's minds by the sheer bulk of their creations.

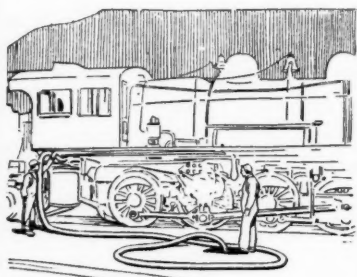
Rubber is less spectacular, but it is as indispensable to our industrial life as any of these materials.



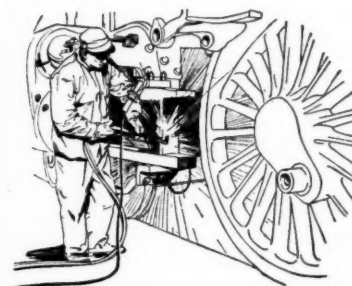
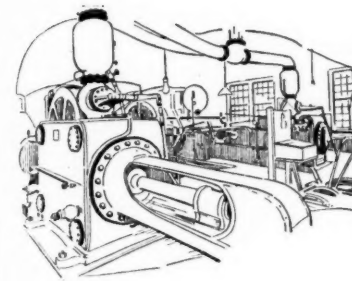
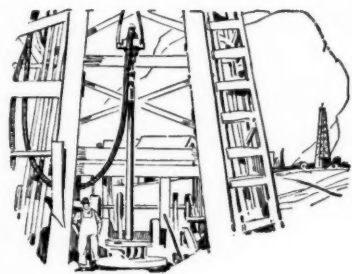
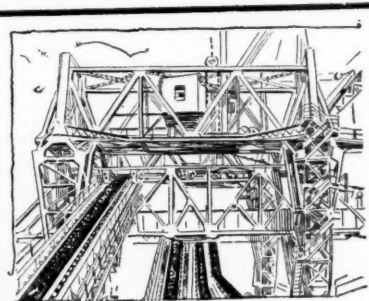
Rubber air hose, driving rivets by the million, gives form overnight to either factory or ship. Rubber packings and rubber insulated wire make possible our modern steam and electric power plants. Rubber hose carries to the drills of our mines, quarries and oil wells the pressure to operate and the lubricant to cool them. Rubber belting conveys the raw material at points of transfer, and drives machines which turn out finished products.



Such tasks deserve good rubber, and the United States Rubber Company has played a leading part in making good rubber a recognized industrial necessity. It has made important contributions to the development of almost all the rubber products used by industry. It has acquired extensive plantations to assure a permanent supply of high grade crude rubber. Looking always to the future good of the rubber industry and of industry as a whole, it has earned a name for high quality and well tested values.



Mechanical rubber goods can have no better guarantee than the "U. S." trade mark.



## United States Rubber Company

1790 Broadway, New York City

*Branches in every industrial center*





# SARASOTA, FLORIDA

"Smiling Up to Smiling Skies"

**Establish New World's Record for Cities of Its Class With a Program of \$35,000,000 in Assured Projects for 1925**

(Reprint from "This Week in Sarasota" January 15, 1925 issue.)

Sarasota accentuated its new world's record for actual projects in this region for the next twelve months, since "This Week in Sarasota" went to press by more than two millions of dollars additional of authorized and fully accredited expenditures for a greater Sarasota. The full import of this vast program of expansion and constructive development, absolutely devoid of speculative features, is beginning to be realized and the requests for a revised list of this program have become so insistent the past few days that the publishers have decided to present in this issue an up-to-date catalogue of this history-making epoch.

So great was the demand for last week's issue that we could have sold five thousand additional copies. Probably no news in recent months has caused a greater or more profound sensation. Primarily because there is no denying cold hard facts and figures do not misrepresent. The revised figures indicate a program of \$35,000,000 for the Sarasota Bay region in the next twelve months.

It is significant to note that in this revision the publishers have deducted \$1,500,000 from the previous figures pertaining to the new Sarasota Bay Hotel on Banana avenue, careful inquiry revealing that the original estimate of three millions will not be carried out. Every precaution has been taken to avoid errors and exaggeration. Nothing has been padded. It is a new world's record for any similar sized area of population in the civilized world.

The John Ringling program along the Keys will aggregate more than originally estimated, but this has not been enlarged.

The revised list is printed below. If you would become associated with the fastest growing community in the South, buy a ticket for Sarasota, the "gold fields of Dixie."

New golf course, city park, street paving, curbing by associated interests, Englewood district.....	100,000	Residence for Mrs. McAdoo on Treasure Island.....	75,000
New homes projected for Englewood.....	75,000	Treasure Island projects, boulevards and general construction.....	150,000
New township development near Woodmere.....	50,000	Palmer Corporation reclaiming and draining 26,000 acres.....	700,000
Development work and construction, Nokomis.....	250,000	Golf course, Fruitville boulevard.....	50,000
Enchanted Isles (Beeler project).....	100,000	Bay Island development (Campbell & Bryan).....	100,000
Venetian Islands (Syndicate).....	250,000	New office building Banana avenue, Island properties.....	25,000
E. A. Smith subdivisions South on Osprey avenue.....	75,000	New Presbyterian church.....	125,000
South Shore (Woolley, et al).....	150,000	New seven-story building, corner 8th and Central avenue.....	350,000
Montgomery subdivision, Bee Ridge Road, near Osprey avenue.....	40,000	La Linda Terrace, new homes, streets and improvements.....	75,000
Vamo, additional development and construction.....	150,000	New business block on Victory avenue, estimated.....	200,000
Horton & Smith at "Rose Lawn".....	10,000	Odd Fellows, projects.....	40,000
Hyde Park Terrace new homes, streets, etc.....	50,000	Sarasota Bay Estates (this year).....	1,000,000
County roads and bridges.....	1,010,000	New bandstand and shell.....	3,500
Avondale, additional development.....	50,000	New homes, Central Park district.....	100,000
Avion, streets, water, curbing, sidewalks, etc.....	50,000	New homes, Sarasota Heights.....	250,000
Dr. C. Prun Stringfield's subdivision near A. C. L.....	120,000	Harry Rigby's building project opposite Avondale.....	85,000
San Remo, dredging, development, bulkheading, paving, boulevard, etc.....	1,000,000	New homes, Siesta subdivision (not Siesta Beach).....	150,000
New homes projected San Remo next 12 months.....	350,000	New homes, Granada, next 12 months.....	250,000
Bay Point Park development.....	50,000	New home George B. Prime (under construction).....	20,000
New homes, Bay Point Park to be built, (estimated).....	250,000	Additional story to Sarasota Sales Co. block.....	15,000
New yacht basin, A. E. Cummins & Bay Point Park.....	25,000	Tamiami Terrace improvements.....	40,000
Ringling Isles (project of vast magnitude).....	3,000,000	Sapphire Shores (Brywil Development).....	175,000
John Ringling Causeway.....	500,000	One thousand more homes averaging \$5,000.....	5,000,000
Sarasota Ritz-Carlton hotel.....	3,275,000	Sevilla, improvements only, not buildings.....	20,000
Sarasota Bay Hotel (Banana avenue).....	1,500,000	Bay Haven, Indian Beach and Bradenton road.....	150,000
Castle Del Mar, Pineapple and McAnsh Square.....	250,000	"Versailles," Bee Ridge and Osprey road.....	100,000
Archibald warehouse, near Seaboard tracks.....	10,000	Mira-Mar Pier.....	3,500
New ice plant, J. D. Hazen syndicate.....	75,000	New residence W. V. Coleman, Bay Haven subdivision.....	35,000
Proposed new plant Howard Lumber Co. with mill.....	55,000	New home Sarasota Elks.....	100,000
New plant Hillcrest Mfg. Co. (under construction).....	30,000	New residence E. E. Booth.....	20,000
Sarasota Securities Development Co.....	75,000	New residence for E. A. Smith and landscaping.....	20,000
Hotel Riviera, M. F. Schiavone.....	2,500,000	Extensions, improvements and additions, Jos. Downey.....	50,000
New Seaboard Air Line depot and freight sheds.....	100,000	State road work, Tamiami Trail, this county.....	150,000
Additional Seaboard trackage and sidings.....	35,000	New homes under way De Sota Park.....	75,000
New plant Patten Lumber Co. warehouse, etc.....	25,000	New building to house Snyder Furniture Co.....	18,000
Sarasota Beach development, dredging, canals, etc.....	1,000,000	T. H. Martin's new home, Bay Island.....	22,500
Building construction, residence, Sarasota Beach.....	500,000	New plant, Sarasota Ice & Cold Storage Co.....	100,000
Sarasota Beach Casino and baths (McAnsh syndicate).....	250,000	Subdivision of famous Yohe Grove.....	75,000
Addition to Sarasota Cement Products Co. and equipment.....	15,000	New county court house (site already purchased).....	200,000
New theatre, Associated Enterprises, Inc.....	100,000	Whitaker Bayou development by Risher, West and Hazen.....	50,000
New theatre, same corporation for road shows.....	45,000	New schools.....	250,000
Siesta Beach Development, golf course, clubhouse, etc.....	1,000,000	Residence of O. C. Maner, Siesta Point.....	17,500
Building and home construction, Siesta Beach 1925.....	350,000	New home Randall E. Brown, Siesta Point.....	15,000
Annex to Mira-Mar hotel.....	150,000	New apartment house, Sunset Park.....	250,000
Breakwater city terminals and dredging.....	15,000	Villa Sarena.....	200,000
City of Sarasota, paving and improvement work.....	100,000	Granada, (additional paving).....	25,000
Development mills, homes, etc., new town of Richardson.....	150,000	Sarasota Laundry, additions.....	10,000
Five new homes, Siesta Point.....	75,000	Hillcrest Park.....	20,000
Extension of electric lines in county.....	20,000	Gillespie avenue, 17 houses.....	75,000
Additional unit to new electric plant (Coca Beach etc.).....	25,000	Morton & Herrick.....	100,000
Completion of new Atlantic Coast Line station and enlarging freight houses, increasing track facilities, etc.....	150,000	Millionaire J. C. Brown's subdivision.....	100,000
Home construction program for Valencia Terrace.....	175,000	Evergreen Manor—Chas. Conrad, Inc.....	15,000
New hotel on North Shore Delaplane-Price development.....	1,000,000	Grove Park.....	20,000
Building construction Delaplane-Price project.....	500,000	New home, Mr. Klukoski.....	15,000
Indian Beach Estates (buildings not estimated).....	500,000	New Mortuary chapel on Orange avenue, for Thacker & Van Gilder.....	25,000
Indian Beach Court (Conrad project).....	30,000	New bank fixtures and vault, American National.....	35,000
Construction new theatre Banana avenue (Owen Burns).....	65,000	McCroxy Syndicate Block.....	100,000
Completion John Ringling mansion, Indian Beach.....	500,000	Forty miles of sidewalks.....	100,000
		Alterations, Bank of Sarasota.....	25,000
		Tamiami Terrace.....	75,000

## The Greatest Small City in All the World

Population in June, 1924, estimated at 3,500

Population Dec. 31, 1924, estimated 10,000

Bank resources December 31, 1923.....	\$ 1,696,939.61
Bank resources December 31, 1924.....	4,992,466.25
Assessed valuation Sarasota, 1923.....	4,786,190.00
Assessed valuation Sarasota, 1924.....	12,466,140.00
Building permits for 1923.....	875,490.00
Building permits for 1924.....	1,749,599.00

(Sarasota city limits are only 1-1/16 square miles in extent—estimated by architects and contractors that \$4,500,000 additional building was done in subdivisions adjacent to Sarasota.)

Occupational licenses issued by city to December 31, 1923.....	139
Occupational licenses issued by city to December 31, 1924.....	495

In winter season of 1923-24 one Pullman a day served Sarasota—this season 15 Pullmans are necessary.

Eight months ago full carload receipts of freight to Sarasota averaged eight cars a day—now 100 cars daily.

Estimated that sales and re-sales of property in Sarasota county during 1924 totaled more than \$50,000,000.

This advertisement is printed to acquaint the South that Sarasota and Sarasota county is growing by doing—that Sarasota does not gain publicity through a maze of glittering generalities or pleasing platitudes.

By Authority of the

**SARASOTA COUNTY CHAMBER OF COMMERCE**  
SARASOTA, FLORIDA

### To Vote on \$1,000,000 School Bond Issue.

Baton Rouge, La.—A special election in this city on a \$1,000,000 bond issue for schools has been called for February 17 by the East Baton Rouge Parish School Board. It is planned to erect additional school buildings to serve the city and immediate suburbs.

### Plans 28-Mile Power Line Extension.

The Carolina Light & Power Co., Aiken, S. C., plans extension of its power line to serve the Edisto Public Service Co. at Williston, S. C. The extension will be 28 miles long, 44,000 volt, single pole, single circuit. The company has a contract with the Augusta-Aiken Railway & Electric Corporation, Augusta, Ga., for power, and the supply for the new extension will be received from that company.

### Will Build \$100,000 Fig Preserving Plant.

Alvin, Texas, January 17—[Special.]—Additional fig orchards are to be set out in this section this spring and canning of the fruit is to be expanded by the construction of a large plant here by James G. Collin and T. G. Markley of the Magnolia Fig Nurseries, Inc., of Houston. The new preserving plant will cost \$100,000, it is stated, and will be finished in time to handle the fig crop of this year.

### Concerning Florida Citrus Fruits.

The Atlantic Coast Line has issued a pretty and artistic folder with pictures in natural colors showing a Florida orange and also Florida grapefruit as they appear when growing. Within, these fruits are described as to their advantages in conserving the general health, and instructions are given as to how to keep them and how to prepare them for eating. Attention is also directed to the fact that canned grapefruit can now be obtained in the stores and it is remarked that some epicures prefer it even to the fresh fruit.

### Work of Federal Judges in Patent Cases.

In connection with a bill pending in Congress for increase in salaries of Federal judges, C. A. P. Turner, civil engineer, Minneapolis, calls the attention of the MANUFACTURERS RECORD to "the difficult work the Federal judges perform in the jurisdiction of patent causes for invention." Mr. Turner's conclusion is:

"We are in favor of increased pay of the patent judge, provided that increase in compensation is dependent on judicial ability to qualify by rigid civil service examination" in projection drawing, in the rules of practice and procedure of the Patent Office, and in mathematics, physics, chemistry, hydraulics, etc.

### MARYLAND TRUST COMPANY

BALTIMORE

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CAPITAL, \$1,000,000

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We shall be glad to discuss your requirements.



## Bank of New York & Trust Company

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over \$16,000,000

NEW YORK, N. Y.



WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

## Electric Bond and Share Company

(Incorporated in 1905)

Paid-up Capital and Surplus, \$65,000,000

71 Broadway

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## Maybe This Bank Is Different From Others

Its policy is pleasing 16,000 customers who are its friends. Address us in regard to your financial requirements.

## BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

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## WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

### M. W. ELKINS & CO.

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## We Buy Bonds

City, County, School and Road, from Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.  
CINCINNATI OHIO

## Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

### A.C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.

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Milwaukee

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## REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

### MARX AND CO.

Brown-Marx Bldg.

Birmingham, Alabama

# What Wall Street is Investing in

Some of the most prominent investment houses in New York and other cities, which hitherto have offered their clients only railroad, industrial, public utility and government bonds, have recently underwritten and offered First Mortgage Real Estate Bonds secured by income-earning city structures.

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# PROPOSALS

Bids close February 20, 1925.

U. S. Engineer Office, Baltimore, Md. Sealed proposals will be received here until 1 P. M., Eastern Standard Time, February 20, 1925, and then opened, for dredging in Baltimore harbor and channels, Md. Further information on application.

Bids close January 31, 1925.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 A. M. January 31, 1925, and then opened, for furnishing and delivering structural steel lock gates, including fittings, castings, etc., for the navigation lock of Wilson Dam, Tennessee River, and for the erection of same. Further information on application.

Bids close February 6, 1925.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., January 9, 1925. SEALED PROPOSALS will be opened in this office at 3 P. M. February 6, 1925, for new plumbing fixtures, etc., in the U. S. Postoffice and Custom House, Cairo, Ill. Drawings and specifications may be obtained from the Custodian, U. S. Postoffice and Custom House, Cairo, Ill., or from this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close February 6, 1925.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., January 12, 1925. SEALED PROPOSALS will be opened in this office at 3 P. M. February 6, 1925, for remodeling, including incidental changes in the mechanical equipment of the United States Postoffice at Clarksburg, W. Va. Drawings and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close February 3, 1925.

## \$72,500 6% Improvement Bonds

Kingsport, Tenn.

Sealed bids will be received until 8 o'clock P. M. February 3, 1925, for the following City of Kingsport 6% Bonds:

\$41,000 City Improvement Bonds, dated October 1, 1924, maturity twenty (20) years from date of issue, in denominations of \$1000 each, interest payable semi-annually.  
\$31,500 Improvement District Bonds (District No. 24), dated December 1, 1924, maturing \$3500 annually from 1925 to 1933, inclusive, in denominations of \$500 each, interest payable annually.

Principal and interest payable at The Hanover National Bank, New York City. Opinion approving the legality of the bonds will be furnished by Hon. John C. Thomson, New York City, and the City of Kingsport will bear all expense in connection with the preparation and printing of the issues.

A certified check for \$750, payable to G. D. Black, City Treasurer, must accompany each bid, and all bids must be marked "Sealed Bids for Bonds" and addressed to the undersigned.

The Board of Mayor and Aldermen reserve the right to reject any and all bids.

F. L. CLOUD, City Manager.

Bids close February 17, 1925.

## Bascule Bridges

Sealed proposals, addressed to the City Commission, Tampa, Florida, for the construction of bridges over Hillsborough River at Cass street and at Platt street, in the City of Tampa, Florida, will be received by the City Commission, City Hall, Tampa, Florida, until 11 A. M. February 17, 1925, and not thereafter, and at that time will be publicly opened and read. Said proposals should be indorsed "Proposal for construction of bridges at Cass street and at Platt street."

Plans, specifications, form of proposal, bond and contract for the work are on file in the office of the City Engineer, City Hall, Tampa, Florida, and may be there seen.

Copies of plans and specifications may be obtained from the City Engineer or from the Strauss Bascule Bridge Company, 225 North Michigan avenue, Chicago, Illinois, upon written application therefor and the deposit

of Thirty Dollars (\$30), Twenty Dollars (\$20) of which sum will be refunded upon return of the plans and specifications in good condition within forty-five (45) days' time following the opening of bids.

Each of the two (2) bridges has a channel span consisting of a double-leaf, underneath counterweight type of Strauss Trunnion Bascule Bridge measuring one hundred twenty-five feet (125' 0") center to center of main trunnions, flanked on each side with reinforced concrete spans and retaining walls, the overall length of the structures being approximately five hundred fifty feet (550' 0") at Cass street and approximately seven hundred feet (700' 0") at Platt street, each structure providing a forty-foot (40' 0") roadway and two (2) eight-foot (8' 0") sidewalks.

All proposals must be made upon blank forms attached to the specifications. Each bid is to be presented enclosed in sealed envelopes furnished by the City of Tampa for this purpose, indorsed as above provided, and filed with the City Commission, City Hall, Tampa, Florida, and shall be accompanied by a certified check or bid bond made payable to the City of Tampa for an amount equal to ten per cent (10%) of the amount of the total bid, and no bid shall be considered unless such check or bid bond is enclosed therewith. Such certified check or bid bond shall be delivered upon condition that, if said bid be accepted, the party bidding will promptly and properly enter into and execute a contract and bond in accordance with the award. Should the successful bidder to whom the contract is awarded fail to execute the same within ten (10) days, not including Sunday or legal holidays, from the date of notification of such award, such security shall be forfeited to the City of Tampa as liquidated damages, and the same shall become the property of the City of Tampa. Certified checks or bid bonds of the unsuccessful bidders will be returned to the bidders who submitted them.

A good and sufficient surety company's bond, acceptable to the City Commission of the City of Tampa, Florida, will be required for the faithful performance of the construction contract in a sum equal to fifty per cent (50%) of the amount of the contract price.

Contract and bond shall be approved by the City Commission and executed for the City of Tampa by the Mayor Commissioner.

The City of Tampa reserves the right to waive formalities and reject any and all bids.

## CITY OF TAMPA.

By W. LESLEY BROWN,

City Manager.

By R. D. MARTIN,

City Engineer.

THE STRAUSS BASCULE BRIDGE CO.,  
Consulting Engineers.

Bids close February 3, 1925.

## Street Paving

Newberry, S. C.

Sealed bids will be received by the Council of Newberry, S. C., at the City Hall at 2 o'clock P. M. on February 3, 1925, for the paving of certain streets, including storm drainage. Amount of paving 60,000 square yards. Each bid must be accompanied by a certified check for \$5000 as a bidder's guarantee.

Plans and specifications may be seen at the City Hall, Newberry, S. C., or at the office of the Engineers. Specifications will be mailed on application.

The city reserves the right to reject any and all bids.

WALTER B. WALLACE, Mayor.  
J. W. CHAPMAN, Clerk and Treasurer.  
THE HARWOOD BEEBE CO., Engineers,  
Spartanburg, South Carolina.

Bids close January 29, 1925.

## Paving and Sewers

Vero, Fla.

Sealed proposals will be received by the City Council of the City of Vero, Florida, at the City Hall until 8 P. M. January 29, 1925, at which time they will be publicly opened and read, for the following work:

23,250 cu. yds. of subgrading.  
82,341 sq. yds. of waterbound macadam paving with asphalt surface treatment.  
21,966 lin. ft. of combined curb and gutter.  
26,818 lin. ft. of concrete curbing.  
476 lin. ft. of 8-inch vitrified pipe storm sewer.  
908 lin. ft. of 10-inch vitrified pipe storm sewer.  
1,625 lin. ft. of 12-inch vitrified pipe storm sewer.  
165 lin. ft. of 15-inch vitrified pipe storm sewer.  
125 lin. ft. of 30-inch vitrified pipe storm sewer.  
36 lin. ft. of 12-inch cast-iron pipe storm sewer.  
46 curb inlets, 1 concrete storm sewer bulkhead.  
85 lin. ft. of 42-inch segment block culvert.  
250 lin. ft. of 96-inch segment block culvert.  
200 lin. ft. of 36-inch segment block culvert.

The city reserves the right to award contract to separate bidders on separate sections of the work and to reject any or all bids, and to waive any or all technicalities in awarding the contract.

All bids must be upon the blank forms provided in the Proposal, Specifications and Contract.

Each bid must be accompanied by a certified check for 5% of the amount of the bid, and the Contractor must provide a construction bond for 100% of his bid.

Plans, specifications and forms of contract and bond may be examined at the office of Carter & Dameror, Engineers for the City of Vero, Florida, or sets may be obtained from them by making a deposit of Twenty-five Dollars (\$25), Fifteen Dollars (\$15) of which will be refunded on their return within fifteen (15) days following the date of opening bids.

B. T. REDSTONE, Mayor.  
HAROLD G. REDSTONE, Clerk.

Bids close February 3, 1925.

## Water and Sewerage Systems

Sealed proposals will be received by the Mayor and Board of Aldermen of the Town of Siler City, N. C. until 3.00 o'clock, p. m., February 3, 1925, for the construction of water and sewerage systems.

The systems consist of the following parts:

200,000 gal. Reinforced Concrete Reservoir.  
100,000 gal. Steel Tank and Tower.  
Sewage Disposal Plant.  
Pump House and Pumping Equipment.  
15,000 ft. of 6", 8" and 10" Cast Iron Water Pipe.  
18,000 ft. of 6", 8", 10" and 12" Sewer Pipe.

Plans will be on file, and may be examined, at the office of the Mayor of Siler City, and at the offices of Spoon & Lewis, Engineers, 407-8-9 American Bank Building, Greensboro, N. C., after January 19, 1925. After that date Plans, Specifications, Bid and Contract Forms may be secured from the Engineers upon receipt of \$15.00, of which \$7.50 will be returned to bona fide bidders upon return of the plans in good condition to the Engineers.

Each bid for the complete systems must be accompanied by a certified check or bidders' bond in the sum of \$3,000.00 payable to the Treasurer of the Town of Siler City. Bids for separate parts shall be accompanied by certified checks or bidders' bonds to the amount of five (5) per cent of the Bid.

Proposals will be received covering individual parts of the systems as well as for the complete systems. Proposals will be opened publicly with the usual rights reserved, including the right to let separately certain units of which the complete systems are composed, if to the best interest of the Town to do so.

BOARD OF ALDERMEN OF  
SILER CITY, N. C.

J. S. WRENN, Mayor.  
SPOON & LEWIS, Engineers,  
Greensboro, N. C.



Bids close February 18, 1925.

### Water Supply System

West Jefferson, N. C.  
Sealed proposals will be received by the Town Board of Commissioners of West Jefferson, North Carolina, at the office of the Mayor until 11 o'clock A. M. Wednesday, February 18, 1925, for the following water-works improvements:

2,700 feet 2-inch Cast-iron Pipe.  
13,800 feet 6-inch Cast-iron Pipe.  
1,400 feet 8-inch Cast-iron Pipe.  
5 2-inch Gate Valves.  
25 6-inch Gate Valves.  
7 8-inch Gate Valves.  
36 Hydrants.  
1,300 pounds Cast-iron Specials.  
2 150,000-gallon Concrete Reservoirs.  
Alternate bids on 2 150,000-gallon Steel Reservoirs.

All bids must be upon blank forms provided in the proposal and contract forms, and marked proposal for WATER-SUPPLY IMPROVEMENTS.

Plans and specifications are on file at the office of the City Clerk and at the office of the Engineers, and will be mailed upon application, accompanied by a check for \$10, which will be returned to bona fide bidders.

Each bid must be accompanied by a certified check of not less than 5% of the amount bid. The right is reserved to reject any or all bids.

JAMES ALLEN, Mayor.  
W. C. JOHNSTON, Clerk.  
THE CAROLINA ENGINEERING CO.,  
Engineers, 917-919 Johnston Bldg.,  
Charlotte, North Carolina.  
G. H. BISHOP, Consulting Engineer.

Bids close January 26, 1925.

### Dredging

St. Petersburg, Fla.  
Sealed proposals will be received by the Director of Finance of the City of St. Petersburg, Florida, until 7.30 P. M. January 26, 1925, for the dredging of a turning basin and building breakwater at Port St. Petersburg. Blank forms of proposals and specifications will be furnished prospective bidders. Plans are on file in the office of Director of Public Works, where they may be examined. Certified check in the sum of 5% of bid price will be required with each bid. The right is reserved to reject any and all bids. Bids must be sealed and marked "Bid for Dredging at Port St. Petersburg."

S. S. MARTIN, Director of Finance.

Bids close January 26, 1925.

### Bulkhead and Warehouse

St. Petersburg, Fla.  
Sealed proposals will be received by the Director of Finance of the City of St.

Petersburg, Florida, until 7.30 P. M. January 26, 1925, for the construction of a concrete bulkhead and warehouse at Port St. Petersburg. Blank forms of proposals and specifications will be furnished prospective bidders. Plans are on file in office of Director of Public Works, where they may be examined. Certified check for 5 per cent of bid price is required with each bid. The right is reserved to reject any and all bids. Bids must be sealed and marked "For the Construction of Concrete Bulkhead and Warehouse at Port of St. Petersburg."

S. S. MARTIN, Director of Finance.

Bids close March 2, 1925.

### Library Addition

TO FAIRMONT STATE NORMAL SCHOOL

Fairmont, W. Va.  
Sealed proposals will be received by the State Board of Control at its office in Charleston, W. Va., until 4 P. M. Monday, March 2, 1925, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of R. A. Gillis, Architect, Fairmont, W. Va.

A 60 ft.x64 ft. two-story Brick Addition to the west end of the Fairmont Normal School Building and a concrete Coal Storage, Transformer Room and Ash Hoist in the rear of said building located at Fairmont, W. Va.

Plans and specifications and blank form for bids will be mailed to General Contractors by the State Board of Control when request is accompanied with check in the sum of \$10, WHICH AMOUNT WILL BE REFUNDED ONLY UPON RECEIPT OF BONA FIDE BID AND CERTIFIED CHECK on or before the time named above, and the return of the plans and specifications.

Plans and specifications will be furnished to Sub-Contractors and material firms when request is accompanied with check in the sum of \$10, \$5.00 of which will be refunded upon return of plans and specifications.

Bids to be accompanied with certified check, payable to the State Board of Control in the amount of one (1%) per cent of the bid as guarantee of good faith.

STATE BOARD OF CONTROL.  
By JAMES S. LAKIN, Pres.,  
Charleston, W. Va.

Bids close February 9, 1925.

### Office Supplies and Fixtures

Sanford, Fla.  
Sealed proposals will be received by the City Commission of Sanford, Florida, at their office in the City Hall at or before 2 P. M. February 9, 1925, for the furnishing

of the City Hall with desks, filing cabinets, chairs and other supplies, also for the seating of the auditorium.

Copies of the plans and specifications may be seen at the office of the City Manager.

Bids will be considered on various types and may be made on the furnishing of part or all.

W. B. WILLIAMS, City Manager.

Bids close January 30, 1925.

### Steel Barges

Mobile, Ala.  
Sealed proposals will be received by the Alabama State Docks Commission at their office, No. 200 State Office Building, Mobile, Alabama, until 10 A. M. January 30, 1925, and then publicly opened, for furnishing and delivering two 2000-barrel Steel Barges. A deposit of two thousand (\$2000) dollars in cash or certified check is required with each proposal. A bond to the amount of 50% of the sum bid is required with notarial contract. Specification and proposal forms are on file in the office of the Purchasing Agent, second floor State Office Building, Mobile, Alabama. Complete sets will be furnished to prospective bidders on deposit of \$5.00, which will be refunded to depositors who submit proposals or return sets in good condition. The right is reserved to reject any or all bids and to waive informalities.

ALABAMA STATE DOCKS COMMISSION.  
WILLIAM L. SIBERT, Chairman.

Bids close February 9, 1925.

### Floating Pipe Line

Mobile, Ala.  
Sealed proposals will be received by the Alabama State Docks Commission at their office, second floor State Office Building, Mobile, Alabama, until 11 A. M. February 9, 1925, and then publicly opened, for furnishing and delivering about 1200 feet of Floating Pipe Line, for use with dredge. A deposit of Fifteen Hundred (\$1500) dollars in cash or certified check is required with each proposal. A bond to the amount of 50% of the sum bid is required with notarial contract. Specifications, proposal forms and plans are on file in the office of the Purchasing Agent, second floor State Office Building, Mobile, Alabama. Complete sets will be furnished to prospective bidders on deposit of \$5.00, which will be refunded to depositors who submit proposals or return sets in good condition. The right is reserved to reject any or all bids and to waive informalities.

ALABAMA STATE DOCKS COMMISSION.  
WILLIAM L. SIBERT, Chairman.



## CLASSIFIED OPPORTUNITIES



### MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

#### MINERALS.

Georgia minerals of all kinds; can give quick service.

W. L. ENGLISH, Americus, Ga.

#### NORTHWEST GEORGIA.

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Ga.

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TO HEAR from parties having mineral properties for sale.

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#### LEAD ORE

LEAD ORE FOR SALE, 85% pure; will deliver f. o. b. smelter in car lots. Address No. 6400, care Manufacturers Record, Baltimore, Md.

### MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

#### COAL LANDS AND MINES

FOR SALE—231 acres undeveloped coal property located in Dickenson and Wise Counties, Virginia, carrying Clintwood, Glamorgan and Bolling seams. Address owner, R. L. BUCHANAN, Darwin, Va.

COAL, COAL, COAL—For sale: Three tracts—Pittsburg, 700, 2300, 2500 acres; Kattanning, 1600 acres; Sewickly vein, 3 tracts, 1000, 3000, 3000 acres. Analysis furnished if in making request you give reference. Good terms. G. U. Baisley, 166 West Main street, Clarksburg, W. Va.

### FLORIDA LAND WANTED

100,000 ACRES OF FLORIDA LAND WANTED—Wanted for customers who have the cash for payment from 10,000 to 100,000 acres of Florida land at not over \$6 an acre. Address Benjamin Haskell, Real Estate, Box 1512, Daytona, Florida.

**FARM, FRUIT AND TRUCK LANDS****FLORIDA**

**FLORIDA LANDS**—Large and small tracts at bargain prices. My motto—large commission to parties who furnish me buyers. W. S. LOWERY, DeFuniak Springs, Fla.

**FLORIDA REAL ESTATE SERVICE.**

I buy, sell, exchange, inspect and report upon properties in all parts of the state. My personal knowledge of the state covers many years and my facilities are the best. Perhaps I can serve you to advantage. J. H. BRINSON, Tallahassee, Fla.

**FOR SALE**—Forty thousand acres of land with six miles of highway frontage and fifteen miles of water frontage; will sell all or part. This property is within sixty miles of Miami. Price \$20.00 per acre.

VAN PELT & HUNTER,  
Miami, Florida.

**WE OWN 12,000 ACRES** of Everglade Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock surfaced roads and navigable canals already constructed. This tract fronts on the Cross State Highway. For sale at an attractive price.

**CONSOLIDATED REALTY COMPANY,**  
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**FLORIDA**—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the war," Tampa, Fla.

**6000 ACRES** for townsite and colonization. Tract surrounded by 16 miles of canal. This is a splendid muck soil 5 miles due west of Ft. Lauderdale and 25 miles from Miami, and is the best located and cheapest property for its purposes to be had.

**PRICE \$75.00 PER ACRE.** \$100,000 cash, balance long time. To the man who can handle here is his chance for tremendous profits, or we will be glad to retain a large interest and help to develop it.

**EVERGLADE LAND & DEVELOPMENT COMPANY.**

210 East Flagler Street, Miami, Florida.

**ACREAGE INVESTMENTS****IN FLORIDA.**

**80,000 acres** in West Florida; good soil, very little waste land; hard-surfaced roads through tract; this is a wonderful buy to keep for advance. Price \$3.50 an acre; terms.

**85,000 acres** in middle West Florida; good general farm land with very little waste; near well-developed section of state. Price \$6.50 an acre; terms. This is ready for development now.

**33,000 acres** in South Florida; well located; near railroad and paved highway. Price \$10 an acre; terms.

**145,000 acres** South Florida, with 300 million feet of virgin pine; land worth money and timber thrown in for good measure. Price \$20 an acre; terms.

**19,000 acres** in Sumpter county; good agricultural soil, also general farming; some best truck farms in state adjoin this property. Price \$10 an acre; terms.

**17,000 acres** in Levy and Citrus counties; good general farming soil; well located as to railroads. Price \$6 an acre.

**28,600 acres** in Leon and Wakulla counties; good farming land; very little waste. Price \$5 an acre.

J. F. STEBBINS,

P. O. Box 2945, Tampa, Fla.

"Large tracts and timber land my specialty."

**FARM, FRUIT AND TRUCK LANDS****FLORIDA**

**FLORIDA INVESTMENTS**—Acreage tracts, timber tracts, subdivisions and hotel sites, any section in Florida. Some bargains with quick turnovers and large profits on small investments assured; 25 years' experience. **ASK ANYBODY.** N. D. SUTTLES & COMPANY, Jacksonville and West Palm Beach, Fla.

**ORANGE AND GRAPEFRUIT GROVE**—28-acre grove, oranges, tangerine and grapefruit; 1420 trees, most of them 12 and 14 years old. Present crop estimated at 10,000 boxes, now on trees; 10-room house, running water, insured for \$8000. Magnificent location in best citrus section of Lake County, Florida, on No. 2 State Highway. High elevation, overlooking two large lakes. Subject to development or desirable for rich man's home. Priced to yield 25% or better on investment. Owner must sell at sacrifice account ill health. For further information write H. H. Bass, Griffin, Ga.

**GEORGIA**

**FOR SALE**—4000-acre, well-equipped Georgia farm; high state of cultivation; adapted to cotton, grain, tobacco, clover, truck, etc.; on main line of Central of Georgia Railroad; depot on farm. J. S. Wilson, Bailey, N. C.

**BUSINESS OPPORTUNITIES**

**BUSINESS OPPORTUNITY**—Best located paying investment here, sacrificed to settle estates; \$30,000 income (40%). Request full information. Jack White, Trustee, Box 822, Hot Springs, Arkansas.

**WANTED**—Partner with experience and capital to take general management of or will lease established planing mill manufacturing interior trim and general builders' supply business. Address P. O. Box 92, Charlottesville, Va.

**I SPECIALIZE** in industrial, warehouse and business sites at and adjacent to Washington, D. C.

**M. B. HARLOW,**  
Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

**OIL IS KING.** Wanted—A partner with at least \$10,000 to develop a shallow oil field, wells 275 to 800 feet. I do not ask you to invest until you have inspected the property to your entire satisfaction. Go with me on the ground before you invest. Address P. O. Box 486, Buckhannon, W. Va.

**FOR SALE**—Electrical Merchandising, Electrical Engineering, Contracting and Supply Business located in one of largest cities in Virginia. Annual business of more than \$200,000. Doing small jobbing which could be tripled. All of business or part interest in business can be purchased. Present head of company wishes to retire on account of ill health. All inquiries strictly confidential. Address No. 6415, care of Manufacturers Record, Baltimore, Md.

**WHY NOT SALVAGE YOUR DEAD ASSETS?**

"Too busy with other matters to have even considered it," will most likely be your answer, or possibly you have lacked trustworthy facilities for so doing. Submit your property, regardless of its character or location, for listing and we will frankly and promptly advise if we can serve you. No financial obligation on your part unless we sell. This is fair. We conduct a general real estate business; established 1894. S. W. SOWERS & SON, Hagerstown, Md.

**FOR RENT AS WHOLE OR WILL DIVIDE SHORT OR LONG TERM, WITH OPTION TO BUY.**

**4 3-Story Brick Factory Buildings,** mill construction; **1 2-Story Brick; 1 2-Story Frame; 1 1-Story Frame; 1 Brick Boiler House,** with 2 100 H. P. Boilers. Located on entire city block, 300 feet railroad loading platform on Norfolk & Western Railroad tracks. Connects with all railroads and steamships via Belt Line Railroad. Equipped with Grinnell Sprinkler System. Terms and full details as to sizes, etc., on request. Bosman & Lohman Company, Granby and N. & W. terminal tracks, Norfolk, Va.

**LOCATION WANTED**

**WANTED**—Suitable location in the South for ice and ice-cream plant of about 15-ton capacity. Give full particulars first letter, especially cost of electric power, coal and fuel oil and selling price of ice. Andrew John, 3712 Gough St., Baltimore.

**FACTORY SITES**

**FOR SALE**—Two Flour Mill or other Factory Sites located in Staunton, Va. Connections with two R. R.'s. Water and Electric power **VERY LOW PRICE** for quick sale. For particulars apply at once to A. Lee Knowles, Real Estate, Staunton, Va.

**INDUSTRIES WANTED**

A. S. HAMMACK, Mayor,  
Dayton, Virginia.

Locate in our town; good water, lights, power, splendid schools. In the heart of the Shenandoah Valley. The town will make splendid offer to parties seeking a location for industry.

**RADFORD, VIRGINIA,** offers ideal advantages for industrial enterprises, furniture factories, cotton mills, paper mills, veneer plants, etc. Low tax, plenty good labor, splendid train service and co-operation of city and citizens. Address City Manager for information.

**SARDIS, GEORGIA,** wants manufacturing plants. Chamber of Commerce will help plants secure location. Natural resources cotton, timber, turpentine and rich farming territory. Good location for cotton mills, spoke or handle factory or brick manufacturing. Farmers would co-operate on creamery and cheese factory. Address Secretary Chamber of Commerce, Sardis, Ga.

**INDUSTRIAL PLANTS**

If interested in buying  
**A SOUTHERN COTTON MILL**

Write to  
**F. C. ABBOTT & COMPANY,**  
Charlotte, N. C.

26 years' experience in Southern Mill Stocks.

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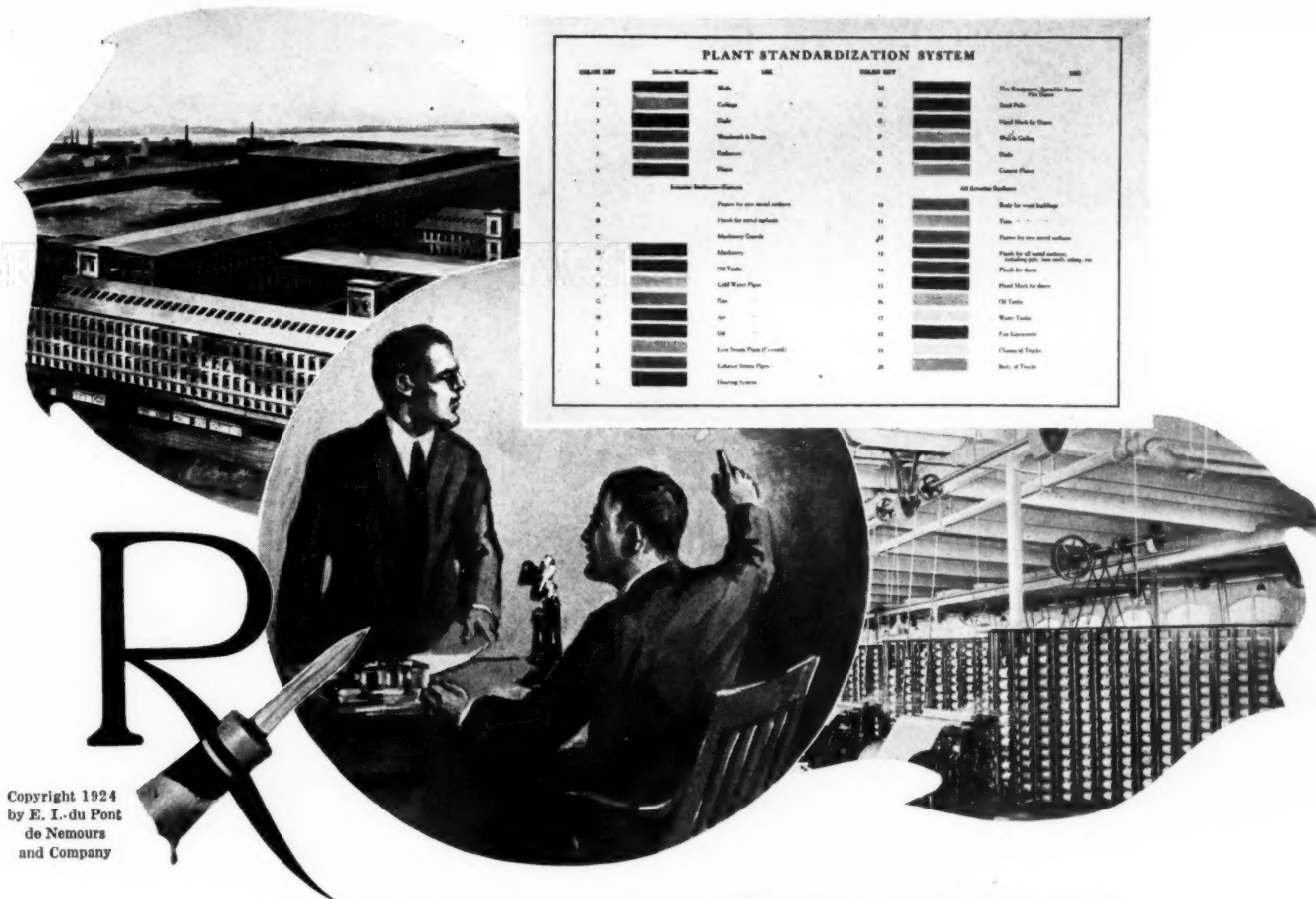
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**PLANT STANDARDIZATION SYSTEM**

COLOR KEY	USE	COLOR KEY	USE
1	Walls	34	Flue Gasways, Smokestacks, Chimneys
2	Columns	35	Steel Pipes
3	Roofs	36	Wood Sheds for Storage
4	Woodwork in Doors	37	Walls of Gates
5	Exhausters	38	Stairs
6	Floors	39	Ground Plans
7	Windows	40	Roofs for road buildings
8	Paints for new steel surfaces	41	Flues
9	Paints for steel surfaces	42	Paints for new steel surfaces
10	Machine Guards	43	Paints for old steel surfaces
11	Machine	44	Paints for old steel surfaces
12	Oil Tanks	45	Paints for steel
13	Oil Water Pipes	46	Paints for steel
14	Gas	47	Paints for steel
15	Oil	48	Paints for steel
16	Oil	49	Paints for steel
17	Oil	50	Paints for steel
18	Oil	51	Paints for steel
19	Oil	52	Paints for steel
20	Oil	53	Paints for steel
21	Oil	54	Paints for steel
22	Oil	55	Paints for steel
23	Oil	56	Paints for steel
24	Oil	57	Paints for steel
25	Oil	58	Paints for steel
26	Oil	59	Paints for steel
27	Oil	60	Paints for steel
28	Oil	61	Paints for steel
29	Oil	62	Paints for steel
30	Oil	63	Paints for steel
31	Oil	64	Paints for steel
32	Oil	65	Paints for steel
33	Oil	66	Paints for steel
34	Oil	67	Paints for steel
35	Oil	68	Paints for steel
36	Oil	69	Paints for steel
37	Oil	70	Paints for steel
38	Oil	71	Paints for steel
39	Oil	72	Paints for steel
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41	Oil	74	Paints for steel
42	Oil	75	Paints for steel
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48	Oil	81	Paints for steel
49	Oil	82	Paints for steel
50	Oil	83	Paints for steel
51	Oil	84	Paints for steel
52	Oil	85	Paints for steel
53	Oil	86	Paints for steel
54	Oil	87	Paints for steel
55	Oil	88	Paints for steel
56	Oil	89	Paints for steel
57	Oil	90	Paints for steel
58	Oil	91	Paints for steel
59	Oil	92	Paints for steel
60	Oil	93	Paints for steel
61	Oil	94	Paints for steel
62	Oil	95	Paints for steel
63	Oil	96	Paints for steel
64	Oil	97	Paints for steel
65	Oil	98	Paints for steel
66	Oil	99	Paints for steel
67	Oil	100	Paints for steel

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